



DEPARTMENT OF AGRICULTURE

OFFICE OF THE SECRETARY

WASHINGTON, D. C. 20250

MAR 4 1970

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 1

Training Exercise for the USDA State Attack Analysis Staff

PURPOSE

To provide a training exercise for use by your State Attack Analysis Staff in the application of the "Supplement on Attack Analysis for Use by USDA State Defense Boards".

BACKGROUND

- A. Nature of Exercise. This exercise provides each USDA State Attack Analysis Staff with an opportunity to apply appropriate provisions of the "Supplement on Attack Analysis" to a small number of ground and air nuclear detonations within the State, and ground or water bursts outside the State. This approach is better for training than an exercise based on a more realistic attack since the realistic attack would produce an uneven workload among the various States.
- B. Operational Coverage. This exercise is designed to cover all of the "Supplement on Attack Analysis" except the measurement, plotting and analysis of monitoring data as described on pages 97 through 131. These monitoring functions are being considered for use as the subject of a more detailed future exercise. Biological warfare reports are not included as part of this exercise.
- C. Exercise Material. Sufficient copies of this memorandum are being furnished to cover the usual State level distribution. In addition, sufficient copies of this memorandum plus Exhibits A, B and C in complete form are being provided under separate cover for distribution to each member of the Attack Analysis Staff.

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NATIONAL DEFENSE 4

DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250



STANDARD PAPER

NOT FOR FILING

ACTION

- A. Make the usual State level distribution of this memorandum and see that State Defense Board members are aware of this exercise and the time schedule involved. Request Board members to give support to any representatives of their agencies on the Attack Analysis Staff.
- B. Take the following action with respect to the Attack Analysis Staff:
1. Distribute to members of the Staff copies of this memorandum plus Exhibits A, B and C in complete form which were received under separate cover.
 2. Review with the Staff necessary preparations as outlined in Sections II and III of the "Supplement on Attack Analysis". NUDETS (Par. 202) and weather information (Par. 203) are furnished, in this case, as part of the exercise materials.
 3. Develop with the Staff a schedule for completing the exercise in time for a review by the State Defense Board as provided in "ACTION B4" below. This will require group action by the entire Attack Analysis Staff and work should be done at the ESO if possible. If not possible, arrangements should be made to move maps, overlays, Strike Data Sheets, templates and other supplies to the point where the Attack Analysis Staff will work.
 4. Request the Staff to report results of the exercise (including a review of completed maps and Strike Data Sheets) at a meeting of the State Defense Board prior to June 30, 1970.
- C. Submit the following items to USDA national headquarters with the report due July 10, 1970.
1. A summary of the comments and recommendations concerning the exercise and how it might be made a more effective training tool.
 2. A reproduced copy of the completed Strike Data Sheet for one of the ground burst NUDETS within your State.

ACTION

A. When the Board has received the report of the investigation of this case, the Board will determine whether the evidence is sufficient to warrant a finding of guilt. If the evidence is sufficient, the Board will recommend a sentence. If the evidence is not sufficient, the Board will recommend that the case be referred to the Attorney General for further investigation.

B. The following action will be taken in the event of a finding of guilt:

1. The Board will recommend a sentence of imprisonment for a term of not less than 10 years and not more than 30 years, or a term of life imprisonment, or a term of death.

2. The Board will recommend that the offender be committed to the custody of the Federal Bureau of Investigation for a term of not less than 10 years and not more than 30 years, or a term of life imprisonment, or a term of death.

3. The Board will recommend that the offender be committed to the custody of the Federal Bureau of Investigation for a term of not less than 10 years and not more than 30 years, or a term of life imprisonment, or a term of death.

4. The Board will recommend that the offender be committed to the custody of the Federal Bureau of Investigation for a term of not less than 10 years and not more than 30 years, or a term of life imprisonment, or a term of death.

C. Submit the following items to the Board for its consideration:

1. A summary of the evidence and the Board's findings.

2. A report of the Board's findings and recommendations.

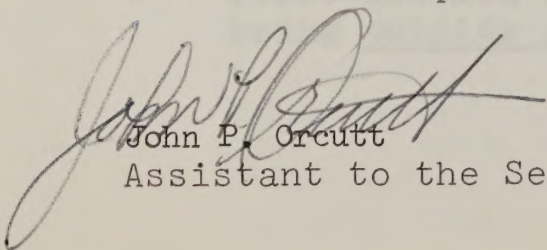
3. Answers to the following questions which will supplement the list of Attack Analysis Staff members submitted with the January 10, 1970, quarterly report.
- a. If the Station assignment of members of your Attack Analysis Staff differs from the standard pattern (Par. 201), indicate in what respect.
 - b. Are trained people available to maintain each operating station on a two-shift basis under emergency conditions?
 - c. List by name and agency the Attack Analysis Staff members who have completed:
 - The Radiological Monitoring for Instructors (RMI) Course?
 - The Radiological Defense Officer (RDO) Course?
 - Other relevant courses? (specify)
 - d. How many Attack Analysis Staff members participated in this exercise?
 - e. How many man-hours were devoted to this exercise?

NATIONAL HEADQUARTERS REVIEW

USDA national headquarters will review the returns from the State Defense Boards. Any significant problems with respect to the individual returns will be called to the attention of the State Board involved.

RETENTION

Retain this memorandum and the accompanying special instructions until September 30, 1970.



John P. Orcutt

Assistant to the Secretary

Answers to the following questions which will supplement the list of attack analysis results submitted with the January 19, 1970, quarterly report.

1. If the Section has knowledge of persons or organizations which have been identified as being involved in the attack, please list them (Part 201), indicate in what respect.

2. Are trained people available to maintain an operating station on a two-shift basis under emergency conditions?

3. List by name and agency the attack analysis staff members who have completed:

The Radiological Monitoring for Insurgents (RMI) Course

The Radiological Defense Officer (RDO) Course

Other relevant courses (Specify)

4. How many Attack Analysis Staff members participated in this exercise?

5. How many man-hours were devoted to this exercise?

NATIONAL HEADQUARTERS REVIEW

With national headquarters will review the report from the State Defense Council. Any significant problems with respect to the individual states will be called to the attention of the State Department involved.

ATTENTION

Re: This memorandum and the accompanying special instruction dated April 30, 1970.

Submitted to the Secretary
John E. Smith

SPECIAL INSTRUCTIONS COVERING TRAINING EXERCISE
FOR THE USDA STATE ATTACK ANALYSIS STAFF

SOURCE DOCUMENTS

The USDA State Attack Analysis Staff will use the "Supplement on Attack Analysis for Use by USDA State Defense Boards" as the basic reference in completing each step of this training exercise. Additional references described in Par. 206 (page 13) and Appendix 1 (page 141) of the Supplement may be used as needed. The basic input assumptions and each of the actions required to complete this phase of the exercise are outlined below:

INPUT ASSUMPTIONS. Use the following input assumptions to complete this exercise:

- A. NUDETS. A list of four assumed Nuclear Detonations (NUDETS) within your State and two additional NUDETS outside your State are included in Exhibit A. All entries are in Zulu time for a typical summer day in July.
- B. Weather Data. Weather reports selected for purposes of this exercise are enclosed as follows:
 - 1. Upper Air (DF) Reports. Reports for all RAWIN stations within the 50 States and Puerto Rico-Virgin Islands are indicated in Exhibit B.
 - 2. Surface Weather Reports. Reports for selected surface weather stations within the 50 States and Puerto Rico-Virgin Islands are attached as Exhibit C.

EXERCISE ACTION. The following actions are to be taken:

- A. Initiate a Strike Data Sheet at Station 1 and complete the first section for each Nuclear Detonation (NUDET) within your State as listed in Exhibit A. Also initiate a Strike Data Sheet and complete the first section for any NUDETS shown in Exhibit A as being outside your State.

SPECIAL INSTRUCTIONS CONCERNING TRAINING EXERCISES
FOR THE USCA STATE ATTACK ANALYSTS STAFF

SOURCE DOCUMENTS

The USCA State Attack Analysts Staff will use the "Supplement on Attack Analysis for the USCA State Defense Position" as the basic reference in completing each step of this training exercise. Additional references described in Part 200 (page 13) and Appendix 1 (page 141) of the Supplement may be used as needed. The basic input assumptions and each of the actions required to complete this phase of the exercise are outlined below:

INPUT ASSUMPTIONS. Use the following input assumptions to complete this exercise:

A. WEATHER. A list of four assumed nuclear detonations (NUDET) within your State and two additional NUDETS outside your State are included in Exhibit A. All entries are in July time for a typical summer day in July.

B. WEATHER DATA. Weather reports selected for purposes of this exercise are enclosed as follows:

1. Upper Air (UW) Reports. Reports for all NAWIN stations within the 50 States and Puerto Rico--Virgin Islands are indicated in Exhibit B.
2. Surface Weather Reports. Reports for selected surface weather stations within the 50 States and Puerto Rico-Virgin Islands are attached as Exhibit C.

EXERCISE ACTION. The following actions are to be taken:

- A. Initiate a Strike Data Sheet at Station 1 and complete the first section for each Nuclear Detonation (NUDET) within your State as listed in Exhibit A. Also initiate a Strike Data sheet and complete the first section for any NUDETS shown in Exhibit A as being outside your State.

- B. Distribute copies of these Strike Data Sheets and weather data (Exhibits B and C) as shown in the Flow Chart on page 17 of the "Supplement on Attack Analysis".
- C. For those NUDETS located within your State, prepare the necessary map overlays and complete all of the other detailed operating functions described for Stations 1 through 4 and part of Station 5 on pages 21 through 95 of the "Supplement on Attack Analysis". Complete as many of the detailed operating functions described for Station 6 on pages 133 through 139 as possible, and review the material in Appendices I, II and III on pages 141 through 151. Do not complete the measurement, plotting and analysis of monitoring data as described on pages 97 through 131 of the "Supplement on Attack Analysis" as part of this exercise.
- D. For any NUDETS outside your State, determine which NUDET, if any, will produce a fallout effect on your State by using the forecasting procedure outlined in "Supplement on Attack Analysis" Par. 405C 6. If one or more of these NUDETS is found to have such an effect, complete the plotting and measurement of projected fallout as outlined under Station 5 for your State in the same manner as if the surface weapon detonation had been within the boundaries of your State.
- E. When the blast overpressure, fire spread and projected fallout coverage overlays have been completed for your State, sketch all of the following exercise findings on one map overlay for your State:
1. Ground zero with identification number in black pencil.
 2. Blast area in black pencil.
 3. Primary and secondary fire spread in red pencil.
 4. Projected fallout area using other appropriate pencil colors to show major radiation contours.
- F. Be prepared to discuss exercise findings (including Strike Data Sheets and maps) at a meeting of the State Defense Board and to provide the Board Chairman with the data and background he will need to carry out the July 10, 1970 reporting provisions specified in "ACTION C" of the memorandum entitled, "Training Exercise for the USDA State Attack Analysis Staff".

B. Distribute copies of these Strike Data Sheets and weather data (Exhibits B and C) as shown in the flow chart on page 17 of the "Supplement on Attack Analysis".

C. For those NUDETS located within your state, prepare the necessary map overlays and complete all of the other detailed operating functions described for Stations 1 through 4 and part of Station 5 on pages 51 through 95 of the "Supplement on Attack Analysis". Complete as many of the detailed operating functions described for Station 5 on pages 133 through 139 as possible, and review the material in Appendices I, II and III on pages 141 through 151. Do not complete the measurement, plotting and analysis of monitoring data as described on pages 97 through 111 of the "Supplement on Attack Analysis" as part of this exercise.

D. For any NUDETS outside your state, determine which NUDET, if any, will produce a fallout effect on your state by using the forecasting procedure outlined in "Supplement on Attack Analysis" Par. A555.6. If one or more of these NUDETS is found to have such an effect, complete the plotting and measurement of projected fallout as outlined under Station 5 for your state in the same manner as if the surface weapon detonation had been within the boundaries of your state.

E. When the blast overpressure, fire spread and projected fallout coverage overlays have been completed for your state, sketch all of the following exercise findings on one map overlay for your state:

1. Ground zero with identification number in black pencil.
2. Blast area in black pencil.
3. Primary and secondary fire spread in red pencil.
4. Projected fallout area using other appropriate pencil colors to show major radiation contours.

F. Be prepared to discuss exercise findings (including Strike Data Sheets and maps) at a meeting of the State Defense Board and to provide the board Chairman with the data and background he will need to carry out the July 10, 1970 reporting provisions specified in "ACTION C" of the memorandum entitled, "Training Exercise for the USA State Attack Analysis Staff".

STRIKE PATTERN for STATE ATTACK ANALYSIS TRAINING EXERCISE

State of _____

Date "A Day in July"

Weapon Number	Time of Strike (Z)	Strike Location	Coordinates			Yield in KT	Burst	
			Zone	Northing or N. Latitude	Easting or W. Longitude		Type 1/	Height 1000 ft.
			<u>WITHIN STATE</u>					
200	0200	(Exact locations to be provided separately for distribution to members of the Attack Analysis Staff)				Med.	Alpha	13
201	0245					10,000	Golf	-
202	0330					5,000	Alpha	13
203	0415					20,000	Golf	-
			<u>OUTSIDE STATE</u>					
100	0030	(Exact locations to be provided separately for distribution to members of the Attack Analysis Staff)				Large	Golf	-
101	0100					Small	Golf	-
***** <u>1/</u> Alpha - airbursts Golf - ground bursts or bursts in water if appropriate.								

Upper Air (DF) Message for allRAWIN StationsDate: "A Day in July"

UF KWBC 081200

UF 30 081200

JFK	11206	20910	40816	60815	80812
PWM	11204	20906	40612	60613	80610
CAR	10905	20808	40611	60612	8MISG

Exhibit C*

Surface Weather ReportAs of 2400Z for "A Day in July"

<u>Station</u> <u>Identifi-</u> <u>cation</u>	<u>Weather</u> <u>At</u> <u>Station</u>	<u>Wind</u> <u>Speed</u> <u>M:/Hr.</u>	<u>Dewpoint</u> <u>Temperature</u> <u>°F</u>	<u>Max. Temp.</u> <u>Last 24 Hrs.</u> <u>°F</u>	<u>Predicted</u> <u>Weather</u> <u>Next 72 Hrs.</u>
	(Item 13-A)	(Item 13-B)	(Item 13-C)	(Item 13-D)	(Item 14)

ZONE I

Houlton (HUL)	Cldy	0	62	76	
Portland (PWM)	Clr	2	63	81	
Burlington (BTV)	Cldy	2	57	84	P

* Complete sets of both Exhibits "B" and "C" will be provided separately for distribution to members of the State Attack Analysis Staff.

Summary of Recommendations Received from
State Attack Analysis Exercise, with Comments by
National Headquarters

A Value of Exercise.

- 1 Consider this type of exercise to be the best method of training available. (Its value to the Attack Analysis Staff is in proportion to the effort expended in completing each operation and knowing how all of the pieces fit together.)
- 2 Exercise provides an excellent chance to test organizational structure and capability of staff to move between stations. (Practice is needed to improve the operation.)

B Geographic Location.

- 1 An exercise would be more realistic if the input data were sent to ESO through established emergency channels. (Even though such a program would require coordination with many agencies, the results should be worth the effort.)
- 2 Exercises should be carried out at the ESO on a continuous basis to save time and make the operation more realistic. (The Attack Analysis Staff might plan for a continuous exercise at the ESO and devote part of the allotted time for each meeting to it along with logical between meeting assignments.)
- 3 An exercise of this type should be conducted on a Regional level. (USDA operates the attack analysis function on a State and national headquarters basis to conform with the normal flow of its operating programs. The Regional level does not have the staff to carry out this function.)

C Exercise Timing.

- 1 Due to the valuable lessons learned from this exercise, it is suggested that a similar program be carried out on an annual basis. (Even though attack analysis is considered to be a continuous program, the Staff should not get into the habit of depending entirely on national headquarters to supply all of their exercise material. Each Staff should plan their own exercise and keep national headquarters informed of their programs.)

The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

Furthermore, it highlights the role of internal controls in preventing fraud and ensuring the integrity of the financial statements. The document also mentions the importance of regular audits and reviews to identify any potential issues or discrepancies.

In addition, the document discusses the importance of maintaining proper documentation and records of all financial transactions. It stresses the need for clear and concise reporting to ensure that all stakeholders have access to the necessary information.

The document also mentions the importance of maintaining accurate records of all assets and liabilities. It emphasizes the need for regular updates and reviews to ensure that the financial statements are up-to-date and accurate.

Furthermore, it highlights the role of the management in ensuring the accuracy and integrity of the financial statements. The document also mentions the importance of regular communication and reporting to the board of directors and other stakeholders.

In addition, the document discusses the importance of maintaining proper documentation and records of all financial transactions. It stresses the need for clear and concise reporting to ensure that all stakeholders have access to the necessary information.

The document also mentions the importance of maintaining accurate records of all assets and liabilities. It emphasizes the need for regular updates and reviews to ensure that the financial statements are up-to-date and accurate.

- 2 Exercises should be held during the winter months. (While it is good business to plan efficient utilization of Staff time, the attack analysis function also needs to be covered on a regular periodic basis.)
- 3 Our Staff plans to carry out a State wide exercise every two years. (It is better to devote some time to a continuous exercise during each Staff meeting than to plan a big exercise every two years and forget about it for the balance of the time.)

D Proposed Exercise Improvements.

- 1 Each exercise should have fewer strikes, possibly one blast only. (Complete processing of one strike is better than partial processing of several strikes. However, the number should be large enough to produce direct effects of blast and fire within the State and indirect effects from up-wind fallout.)
- 2 Representatives from the Weather Bureau would like to have information on any future exercise that may require current weather data. (When and if a future exercise is planned to utilize current weather data, all appropriate Weather Bureau personnel will be notified through their official channel and a copy of this notice included with the exercise.)
- 3 Send a complete set of material and operating tools needed to complete each exercise. (Each State must have the required maps, tools, equipment and other operating data described in Supplement Par. 205 ready for immediate use in the ESO at all times. Extra copies of this material are not available for distribution with each exercise and they could not be distributed for use in event of a major emergency.)
- 4 Develop an exercise to cover radiological monitoring functions. (The Agricultural Research Service coordinates the radiological monitoring program within USDA. They currently have under consideration an expanded monitor training program and the use of an exercise to test the collection, distribution and processing of monitoring data.)

- 5 Recommend the Attack Analysis Staff develop a damage estimation capability to utilize the data they develop. (Use of attack analysis findings is the responsibility of each resource agency. Attack analysis personnel advise and consult with resource agency technicians, but each agency is responsible for assessing the effects of an attack on the resources for which they are responsible. Attack Analysis Staff personnel can of course assist their agency in carrying out its damage assessment responsibilities. Further instructions on the techniques to be used in assessing damage to agricultural resources are being developed for use at the State level.)



11

Staffing, Operating Plans and Training of the
State Attack Analysis Staff

ATTACHMENT I indicates the organizational shift arrangements and size of the Attack Analysis Staffs. It also indicates the number participating in the exercise and time devoted to the exercise.

ATTACHMENT II summarizes the current training status of technical personnel assigned to each Attack Analysis Staff.





DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

MAR 26 1970

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 2

Working Relationships with State and Local Governments
in Carrying Out Emergency Programs

PURPOSE

This exercise is designed to indicate the working relationship between USDA and State and local governments in carrying out programs relating to major natural disasters and defense emergencies. It will also provide the USDA National Office and USDA State Defense Boards a better understanding of the degree to which local and State governments have developed a capability to carry out their responsibilities in emergency situations.

BACKGROUND

The role and responsibilities of USDA State and County Defense Boards in connection with defense programs are described in the Defense Operations Handbooks. Although, the USDA State and County Defense Boards as such have no direct operating responsibilities in natural disaster situations, they do have responsibilities for coordinating natural disaster programs under certain conditions. The following statements from Chapter 5 of Title 1 of the Administrative Regulations set forth the conditions under which the Defense Boards would assume responsibilities for coordination during major natural disasters:

"* * * all USDA natural disaster programs shall be coordinated by USDA State and County Defense Boards when:

- a. Areas within their jurisdiction are declared a major disaster area by the President, or
- b. The Assistant to the Secretary determines coordination is necessary because of the number of agency programs involved, or the possibility that the President may later declare the disaster to be a major one.

"This coordination shall be accomplished through an exchange of information by all agency Board members, and may include special Board meetings. The Boards will not direct agency actions but may recommend actions to any agency through its Board member. The Chairman of the USDA State and County Defense Boards shall be the Department's overall representative on these natural disaster matters, including serving as the focal point for providing USDA disaster program information to and receiving information from other government agencies and the public".

Carrying out both defense and major natural disaster responsibilities requires a close working relationship with representatives of State and local government.

ACTION

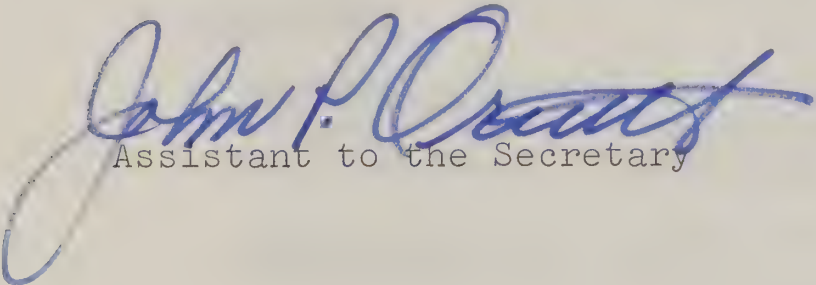
- A. Make the standard distribution of this memorandum at the State level.
- B. Receive under separate cover an average of seven (7) copies per county of the County Questionnaire (Exhibit 1). Make the appropriate distribution to each County and Metropolitan Area Defense Board accompanied by the following instructions to the Defense Board Chairman.
 - 1. Invite Civil Defense and other local government representatives with whom USDA normally works on defense matters and disaster activities to attend a regular meeting of the County Board.
 - 2. Distribute copies of the County Questionnaire (Exhibit 1) to those attending the meeting. Discuss all questions at the meeting and fill out the questionnaire. (The questionnaire is designed to provide information and should not be interpreted as a basis for changing operational procedure.)
 - 3. Send a copy of the completed questionnaire to the USDA State Defense Board by June 30, 1970.
- C. Summarize the completed County Defense Board questionnaires and fill in items 1 through 8 of the State level questionnaire (Exhibit 2).



- D. Invite State Civil Defense and other appropriate State government representatives to attend a meeting of the State Defense Board.
1. At this meeting review with the Board and guests the summary of the County Defense Board questionnaire.
 2. Complete items 9 through 14 of the State level questionnaire (Exhibit 2).
- E. Send a copy of the completed State level questionnaire to USDA national headquarters with the Quarterly Report due October 10, 1970.

RETENTION

Retain this memorandum until December 31, 1970.


Assistant to the Secretary





DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

APR 27 1970

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 3

Evaluation of Communications Exercise

1 PURPOSE

The purpose of this memorandum is to summarize and evaluate the results of the recent communications exercise which was conducted in accordance with USDA State Defense Policy Memorandum No. 49, Supplement 8.

2 ATTACHMENTS

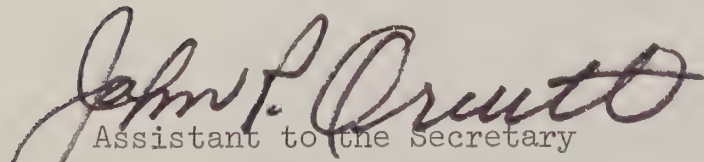
- A Attachment 1 gives results of the communications alert and evaluates the entire exercise. Emphasis is placed on follow-up actions which should be taken by USDA State and County Defense Boards.
- B Attachment 2 is the National Statistical Summary of the communications exercise.

3 ACTION

- A The USDA State Defense Boards should take the State level actions and direct the USDA County Defense Boards to take actions needed at the county level as indicated in Part 3 of Attachment 1.
- B The State Boards should pass on to the County Boards such information on results of the exercise which would be helpful to them.

4 RETENTION

This memorandum and the attachments should be retained until the actions recommended in Attachment 1 have been taken.


Assistant to the Secretary
Attachments

NATIONAL DEFENSE 41

RESULTS OF COMMUNICATIONS ALERT AND EVALUATION OF EXERCISE

1 RESULTS OF COMMUNICATIONS ALERTA Between National and State Levels.

- 1 October 17. USDA national headquarters sent an exercise alerting message via the Advanced Records System (ARS) teletype to the State Defense Board Chairmen in the 48 contiguous States on October 17, 1969. All State Board Chairmen received the notice and proceeded to alert both State Board members and County Board Chairmen. Special arrangements were made to alert the Board Chairmen in Alaska, Hawaii and Puerto Rico-Virgin Islands by mail.
- 2 November 18. Each State Board Chairman in the 48 contiguous States was asked to summarize the results of the alert at the State level and to arrange for this summary to be sent via the ARS teletype from the ESO to the USDA National Relocation Site (Repoint) on November 18, 1969. A teletype message was received from all States, although three States sent it to the USDA Wire Room in Washington, D. C., rather than to Repoint. In two cases, where the ESOs were located apart from the State ASCS Offices, the message was received from the State Office rather than from the ESO. (This resulted, in one of these cases, from illness of the ESO teletype operator.) Two Boards encountered some equipment trouble. Alaska, Hawaii and Puerto Rico-Virgin Islands replied by mail.

- B Alerting State Board Members. The tabulation below shows the approximate time required on October 17, 1969, after receipt of the alerting message from USDA national headquarters, to contact members of the Boards in the 50 States and Puerto Rico-Virgin Islands.

All members or a successor contacted within 1 hr.	-20 Boards
All members or a successor contacted within 1 to 2 hrs.	-15 Boards
All members or a successor contacted within 2 to 3 hrs.	- 2 Boards
All but <u>one</u> member or successor contacted within 3 hrs.	-10 Boards
All but <u>two</u> members or successors contacted within 3 hrs.	- 4 Boards
TOTAL	- 51 Boards

Figuring eight members per Defense Board, there are 408 members on these 51 Boards. All but 18 members or successors were contacted on October 17, 1969, within three hours of receipt of the alert notice instructions. The telephone was used predominantly to carry out the alerting.

- C Between State and County Levels. The average time required to alert all offices of County Board Chairmen was one hour and 17 minutes. Again the telephone was used predominantly for this purpose.
- D At County Level. All members or successors of about 82% of the 2876 County Boards were alerted within the two hour period after receipt of the alerting message. It was estimated that the operations of 4.8% of all County Boards would have been impaired by the failure to contact the members on time.

2 EVALUATION OF COMMUNICATIONS EXERCISE EMPHASIZING ACTIONS TO BE TAKEN

- A State and County. Although results of the alerting phase of the communications exercise were generally satisfactory, it is obvious that some problems in reaching key people did occur and that more problems would very likely occur under emergency conditions. The self-evaluation by State Boards indicated that more difficulties would occur in communications within the States than between the States and between the State level and national headquarters (where ARS teletype is available).
- 1 Use of Existing Radio Transmission Facilities by State Boards. For the most part, communications within the State during the exercise were by telephone. Many of the State Boards noted, however, that some other types of communications are available to them. For example, commercial radio transmission facilities are available to 31 of the State Boards, Federal civilian agency radio transmission facilities are available to 39 of the Boards, and State agency radio transmission facilities are available to 44 of the Boards. Amateur radio facilities are available to 36 of the State Boards. The exercise results also indicated that existing radio facilities would be more useful in communicating within States than in communicating with another State or with national headquarters. A greater effort should be made by the State Boards to arrange for emergency utilization, without cost, of these existing radio transmission facilities. This would augment communications media otherwise available for use within the State.
- 2 Essential Line Service. At the State level 15 of the Boards said that some Board members had not been placed on essential line service for home or office phones. Of this number, three said that telephone companies cannot provide the service.

Part of this problem may be due to confusion of terms. "Essential line service" means that a person is given the opportunity to make outgoing calls even during a defense emergency. Some may believe that essential line service means only the priority

1. The first part of the paper discusses the importance of the study.

2. The second part of the paper discusses the methodology used in the study.

3. The third part of the paper discusses the results of the study.

4. The fourth part of the paper discusses the conclusions of the study.

5. The fifth part of the paper discusses the implications of the study.

6. The sixth part of the paper discusses the limitations of the study.

7. The seventh part of the paper discusses the future research.

8. The eighth part of the paper discusses the acknowledgments.

9. The ninth part of the paper discusses the references.

10. The tenth part of the paper discusses the appendices.

11. The eleventh part of the paper discusses the index.

that can be arranged by the use of special equipment, sometimes referred to as "line load control". Actually this priority can be arranged by a telephone operator who does not have "line load control" equipment. It is necessary to eliminate any misunderstandings on this point at the county as well as State level. If no misunderstanding exists and essential line service still cannot be provided, the State Board Chairman should inform USDA national headquarters.

- 3 Message Control. It is gratifying to note that so many State and County Boards have well developed message control arrangements. Those which do not have such arrangements should continue their efforts to establish them in accordance with guidance in SDH Par. 434 and CDH Par. 328. One aspect of message control is to check conformity of the message with established policy. Few teletype messages received at Repoint on November 18, 1969, were fully in accord with instructions in Par. 25 and Exhibit 9 of ASCS Handbook 7-AS on "Field Communications". Training exercises are to have the words "Exercise Only - Not for Action or Publication" at the beginning and ending of all exercise wires. This warning was missing on 34 of the messages received at Repoint. There were 35 messages which gave the name of the sending State in addition to or instead of the Routing Indicator (RI).

- B National Headquarters. Some of the State Boards suggested that certain communications actions be taken at national headquarters. Following are comments on these suggestions.

- 1 Suggestions Relating to Radio Transmission. It was suggested by some that two-way radios be provided and that the communications capability of the Forest Service be expanded.

The two-way radio with low-enough power so that it does not require licensing by the Inter-Department Radio Advisory Committee is fine at a distance up to one-half mile, but since this would have only local utility it is difficult to justify. More powerful two-way radios suitable for greater distances not only would require licensing but would be prohibitive in cost.

The Forest Service has radio transmission capability within each National Forest and can be expected to make these facilities available on a priority basis wherever they would be helpful in an emergency. Generally, these facilities are spotty, however, just as National Forest areas are spotted within some States and occur not at all in other States. Such facilities would have to be greatly expanded if they were to be helpful on a broader scale. Such expansion would involve substantial expense as well as licensing and, therefore, could not be justified on a standby basis.

It appears that any wide scale radio capability established or expanded by USDA for defense programs would be expensive and difficult to justify on a standby basis. The policy of USDA on radio transmission for defense has been to tie into existing facilities, where possible, and where this does not involve the assignment of frequencies and added cost. No other policy on radio transmission appears feasible at this time.

- 2 Other Suggestions. More study is required to determine the disposition of other suggestions aimed at the national level. These suggestions are summarized in item 11 of Attachment 2 and include such subjects as providing each County Board with a transistor radio; holding periodic communications exercises, including some carried out in cooperation with Civil Defense, the police, or others whose facilities might be shared with USDA; providing additional guidance on alerting procedures and message control forms.

- 3 SUMMARY OF ACTIONS TO BE TAKEN BY USDA STATE AND COUNTY DEFENSE BOARDS
BASED ON RESULTS OF COMMUNICATIONS EXERCISE

- A USDA State Defense Boards should make a greater effort to arrange for existing radio transmission facilities (controlled by other Federal and State agencies, commercial interests and amateurs) to be made available without cost, augmenting other communications media.
- B Both USDA State and County Defense Boards should make sure that "essential line service" (priority to make outgoing calls in an emergency) is not denied because of misunderstandings. Essential line service can be provided by telephone operators and does not necessarily depend on special "line load control" equipment. Notify USDA national headquarters of any problems which persist at either State or county levels.
- C Both USDA State and County Defense Boards should make sure that arrangements for message control are made at State and county levels in accordance with SDH Par. 434 and CDH Par. 328.
- D USDA State Defense Boards should continue to examine and update communications capability at the State level and give guidance to County Boards in this regard.

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USDA STATE DEFENSE BOARD EMERGENCY COMMUNICATIONS CAPABILITY

NOTE: Results are based on information reported by USDA State and County Defense Boards and compiled and submitted by State Boards following the communications exercise conducted during the fourth quarter of 1969.

1 Results of alerting State Board members or successors (following receipt of the alerting message from national headquarters).

A See narrative statement, Attachment 1 (1B).

B Following are the agencies where neither the Board member nor his successor could be reached within the three hour period after the alerting message was received: CES in 5 States; ARS 4; C&MS 4; FHA 3; SCS 1; and SRS 1. (In 37 States all members or successors were reached.)

C Communications media used in alerting Board members or successors included:

	<u>No. of States</u>
Telephone (commercial and FTS)	49
Messenger	2

D Following are the agencies where the member or his successor contacted could not have participated in Board activity if this were an emergency: FHA in 2 States; SRS 2; ARS 1; CES 1; FS 1; and SCS 1. (In 44 States all members or successors who were actually contacted could have participated.)

E Other problems in alerting State Board members were encountered in 7 States.

2 Results of alerting offices of County Board Chairmen.

A See narrative statement, Attachment 1 (1C).

B Predominant communications media used in alerting offices of County Board Chairmen in the various States were:

	<u>No. of States</u>
Telephone (commercial and FTS)	49
Other (such as messenger or police radio)	2

C Predominant media which would have been used to alert County Board Chairmen if the alert had come during non-office hours included:

	<u>No. of States</u>
Telephone (commercial and FTS)	36
State Civil Defense and Highway Department	7
State Police radio	3
Other (such as RACES, etc.)	5

THE UNIVERSITY OF CHICAGO

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- 3 Following are the communications available to USDA State Defense Boards in addition to mail and commercial or GSA-provided telephone service (SDH Pars. 434D and 435) and the use that can be made of these communications.

<u>Communications</u> <u>Categories</u>	<u>Available</u> <u>to SDBs</u>			<u>Of the SDBs answering "yes", the</u> <u>uses that could be made of each</u> <u>communications medium are as</u> <u>follows:</u>			
	<u>No</u> <u>(No. of States)</u>	<u>Yes</u>	<u>Reply</u>	<u>Within</u> <u>State</u>	<u>Adjacent</u> <u>States</u>	<u>To national</u> <u>headquarters</u>	<u>No</u> <u>Reply</u>
(A State could make entries under more than one heading)							
A <u>Radio Transmission, e.g.</u>							
1 Commercial (radio stations)	19	31	1	21	4	3	3
2 Federal Government - Civil (US Park Service, US Forest Service, US Civil Aeronautics Authority, Coast Guard, US Weather Bureau, Civil Defense)	11	39	1	24	11	6	4
3 Federal Government - Military (US Army Navy or Air Force posts, camps or stations)	40	8	3	5	3	1	-
4 State Government (State Police, State Highway Department, National Guard, Civil Defense)	7	44	-	27	13	9	4
5 Amateur (Radio Amateur Civil Emergency System "RACES")	13	36	2	16	6	5	9
6 Other	43	8	-	-	-	-	-

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4. The fourth part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

<u>Communications Categories</u>	<u>Available to SDBs</u>			<u>Of the SDBs answering "yes", the uses that could be made of each communications medium are as follows:</u>			
	<u>No</u> (No. of States)	<u>Yes</u> (No. of States)	<u>No Reply</u>	<u>Within State</u>	<u>Adjacent States</u>	<u>To national headquarters</u>	<u>No Reply</u>
B <u>Teletypewriters, e.g.</u>							
1 Western Union (commercial)	10	36	5	5	20	23	5
2 ARS Teletype	3	48	-	-	35	37	11
3 TWX	32	11	8	2	7	6	2
4 US Military (Army, Navy or Air Force telegraph offices at posts, camps or stations)	34	7	10	2	3	4	1
5 Other	43	8	-	-	-	-	-

- 4 The communications categories available, as indicated by the "yes" column in item "3" above, were evaluated to determine whether they provide adequate communications capability. The results follow:

	<u>Adequate</u>	<u>Inadequate</u>	<u>No Reply</u>
	(Number of States)		
A Within the State?	45	5	1
B Between the State and other States?	49	1	1
C Between the State and national headquarters?	49	1	1

- 5 The State Boards were asked to take into account the communications gaps revealed by items "3" and "4" above and list other types of communications which they should attempt to obtain the use of. Results are as follows:

	<u>No. of States</u>
No communications gaps	22
No reply	13
Two-way radio compatible with State Civil Defense network	6
Transceiver tied in with Civil Defense radio network	2
Other (such as Forest Service radio, news wire service, etc.)	8



- 6 A Number of States where the office and residential telephones of each State Board member have been placed on the essential service list of the telephone company. yes 36 no 15

- B Of the 15 State Boards where some Board members have not been placed on essential line service, the following situation exists.

	<u>No. of States</u>
New Board members to be added to "essential list"	4
Arrangements made to correct "essential list"	3
Telephone company can't provide this service	3
GSA is to reconfirm "essential list"	1
Some Board members are on "party lines"	1
No problems	3

- 7 A Personnel have been designated to assist the State Board in processing and controlling emergency messages for 49 of the 51 Boards.

- B Designated personnel are prepared to carry out duties outlined in SDH Pars. 434A, B and C for 47 of the 49 Boards.

- C To remedy the deficiencies shown in "A" and "B" above, the applicable Boards are in the process of selecting and/or training personnel to carry out the required duties.

- 8 County Board Alert.

- A In 2358 of the County Defense Boards (82% of all County Boards), all members were alerted during the two hour period after receipt of the alerting message.

- B In 137 County Defense Boards (4.8% of all County Boards), failure to contact members within the two hour period after receipt of the alerting message would have impaired the ability of the Boards to function.

- C In 68 County Defense Boards (2.4% of all County Boards), inability of alerted members or successors to participate in Board activities would have impaired the ability of the Boards to function.

- 9 A States in which County Boards would like to be able to use additional communications media. (In some States, County Boards would like to use more than one additional medium.)

	<u>No. of States</u>
Two-way radio	20
Commercial radio	16
RACES	16
Local police and fire department radio	15
Sheriff's office radio network	15
State Police radio	14
Ham radio operators	13

	<u>No. of States</u>
Short-wave radio - amateur and citizen's band	13
Public utility company radio	13
State and County Civil Defense network	12
State highway maintenance radio network	8
Other (such as Forest Service radio network)	19

B Communications media identified in "9A" (in addition to those already mentioned) would meet County Board needs in 41 States. Ten States did not respond or were divided in response.

10 A A total of 2384 County Boards (82.8%) have arrangements for processing and controlling emergency messages.

B For the number which do not have such arrangements, all State Boards except one are providing or are about to provide guidance in selecting and/or training appropriate personnel.

11 The State Defense Boards were asked to indicate any problems relating to communications requiring help from the national level. The replies are as follows.

	<u>No. of States</u>
No problems	22
Furnish transistor radio to each CDB	6
Furnish two-way radios to CDBs	5
Expand Forest Service communications network	4
Need periodic exercise in communications	2
Need more guidance on alerting procedures	1
Need standard form for logging messages included as a CDH exhibit	1
Need to involve Civil Defense and State Police in communications exercises	1
Other	3
No reply	6



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

September 23 1970

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 4

Evaluation of Operating Sites for Use by USDA at State and County
Levels in Time of Emergency

OFFICIAL
SECRETARY'S FILE
SECY'S RECD
RECORDS & COMM. DIV.

1 PURPOSE

- A To evaluate the operating sites which would be used by Defense Boards and any other USDA personnel who would occupy the same room or rooms in an emergency.
- B To identify, without detailed evaluation, certain key operating sites which would be used in an emergency by individual USDA agencies.

2 BACKGROUND

Operating sites must be well equipped and sufficiently safe if the field organization of USDA is to function effectively in an emergency. Some guidance has been provided on the selection and equipping of operating sites in defense handbooks and other documents. Until this time, however, we have not had an exercise on this subject.

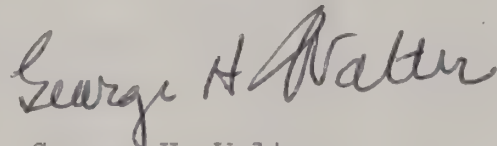
3 ACTION

- A Make the standard distribution of this memorandum at the State level.
- B Receive under separate cover an average of 5 copies per county of the county questionnaire, Exhibit 1. Make the appropriate distribution to each county and metropolitan defense board chairman accompanied by instructions to the defense board chairman which include the following:
 - 1 Place the subject of emergency operating sites on the agenda of a county defense board meeting during the period October-December 1970.
 - 2 Distribute the county questionnaire, Exhibit 1, to those attending the meeting. Discuss all questions at the meeting and fill out the questionnaire.

- 3 Send a copy of the completed questionnaire to the USDA State Defense Board chairman by December 31, 1970.
- C Summarize the county questionnaires and fill in the "State Summary of County Questionnaires Relating to USDA County Operating Sites in Time of Emergency" (Exhibit 2).
- D Include the subject of emergency operating sites on the agenda of a State Defense Board meeting during the period January-March 1971.
 - 1 At the meeting, review with the Board the completed Exhibit 2.
 - 2 Complete the "State Questionnaire Relating to USDA State Level Operating Sites in Time of Emergency" (Exhibit 3).
- E Send a copy of the completed Exhibits 2 and 3 to USDA national headquarters with the quarterly report due April 10, 1971.

4 RETENTION

Retain this memorandum until June 30, 1971.



George H. Walter
Deputy Assistant
to the Secretary



DEPARTMENT OF AGRICULTURE

OFFICE OF THE SECRETARY

WASHINGTON, D. C. 20250

October 4 1971

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 4
SUPPLEMENT NO. 1

National Summary of Results on Evaluation
of Operating Sites for Use by USDA
at State and County Levels in
Time of Emergency

1 PURPOSE

To transmit the national summary of the training exercise contained in USDA State Defense Exercise Memorandum No. 4.

2 BACKGROUND

In the exercise, USDA State and county defense boards were asked to evaluate the operating sites which would be used by defense board members and other USDA personnel who would occupy the same room or rooms in an emergency. The boards were also asked to identify, without detailed evaluation, certain key operating sites which would be used in an emergency by individual USDA agencies.

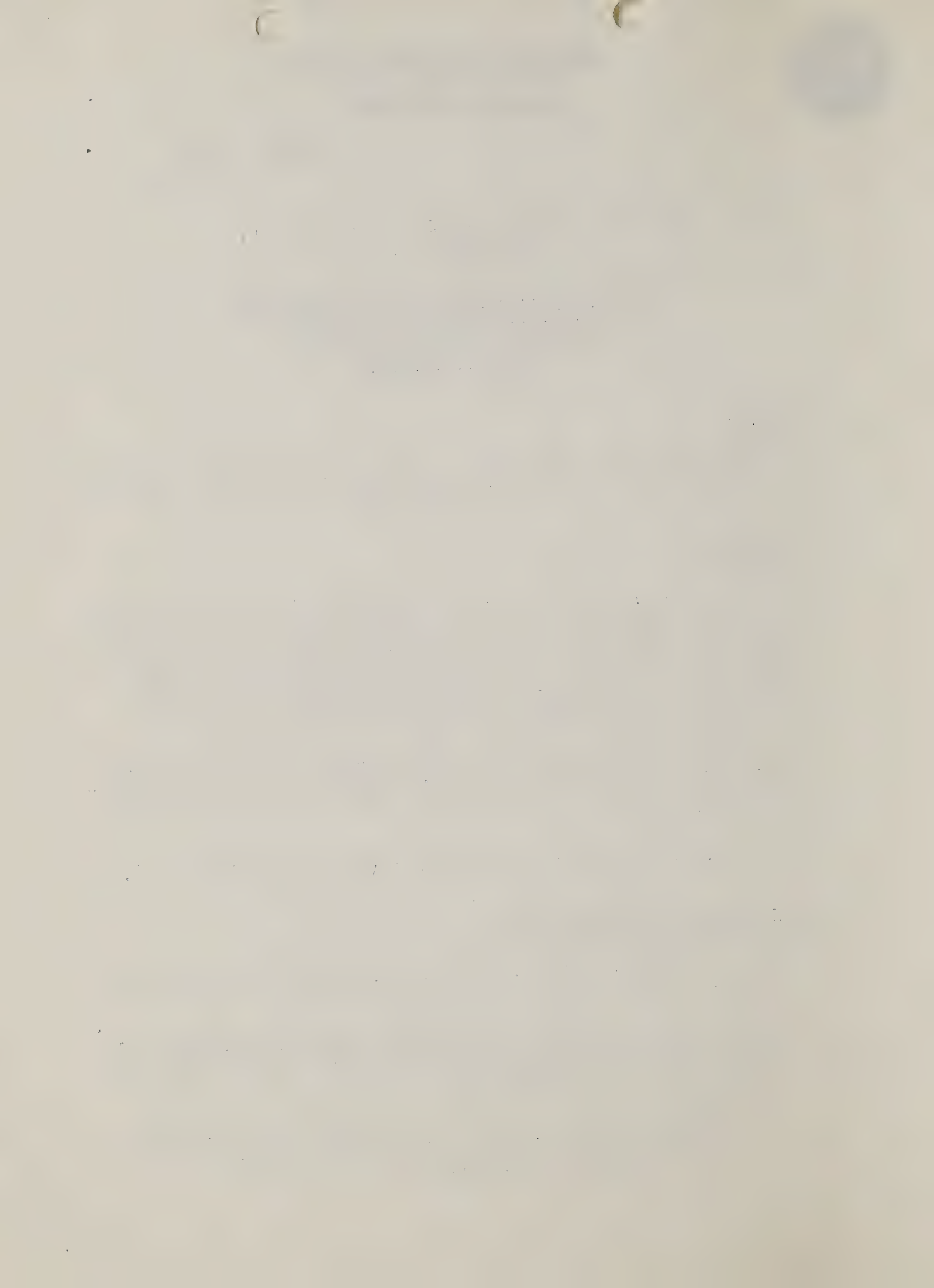
State defense boards prepared a summary of the completed exercise received from county defense boards. The county summary was transmitted to national headquarters along with the State level portion of the exercise.

Highlights of the exercise are attached (Attachments 1A and 1B).

3 ACTION BY STATE DEFENSE BOARDS

- A Make the standard distribution of this memorandum at the State level.
- B On the basis of results of a national evaluation of State and county operating sites, the SDB shall direct the appropriate USDA county defense boards to:
 - 1. Arrange, whenever possible, for adequate and suitable emergency relocation space in the same building as the local civil defense headquarters.

NATIONAL DEFENSE



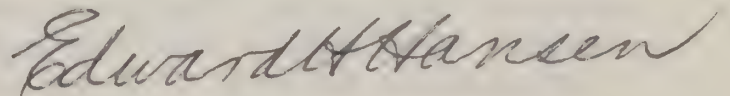
2. Seek assurance that CDB emergency site space will not be included in a public shelter area.
3. Arrange, in all cases, for a telephone at the emergency site. No site is acceptable that does not have telephone communications. Wherever the telephone company has the capability, arrange for "essential line service" for the emergency site telephone.
4. File emergency records wherever the CDB emergency site is located.
5. Arrange with the SCS Board member for an SCS monitor to go to the CDB emergency site with his instruments whenever the CDB is directed to relocate or operate.

C. In the case of the State Defense Board relocation site:

1. If the State defense board emergency operating center is not already located with State Civil Defense, determine if the State can provide suitable and adequate space with its CD unit for USDA emergency operations; if so, send forward the appropriate information for our concurrence on the ESO move.
2. Assign to SCS responsibility for providing a trained monitor with instruments to be at the USDA State defense board emergency relocation site to advise the board on their personal safety.

4 RETENTION

Retain this memorandum and its attachments until actions in Paragraph 3 have been taken.



EDWARD H. HANSEN
Acting Assistant to the Secretary
Intergovernmental Affairs

Attachments



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

DEC 8 1971

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 4
SUPPLEMENT NO. 2

Guidance on Maintenance of Emergency Records by County Defense Boards
with Emergency Offices at Relocation Sites

1 PURPOSE

To modify requirement concerning maintenance of emergency records at CDB emergency operating sites located away from county ASCS offices.

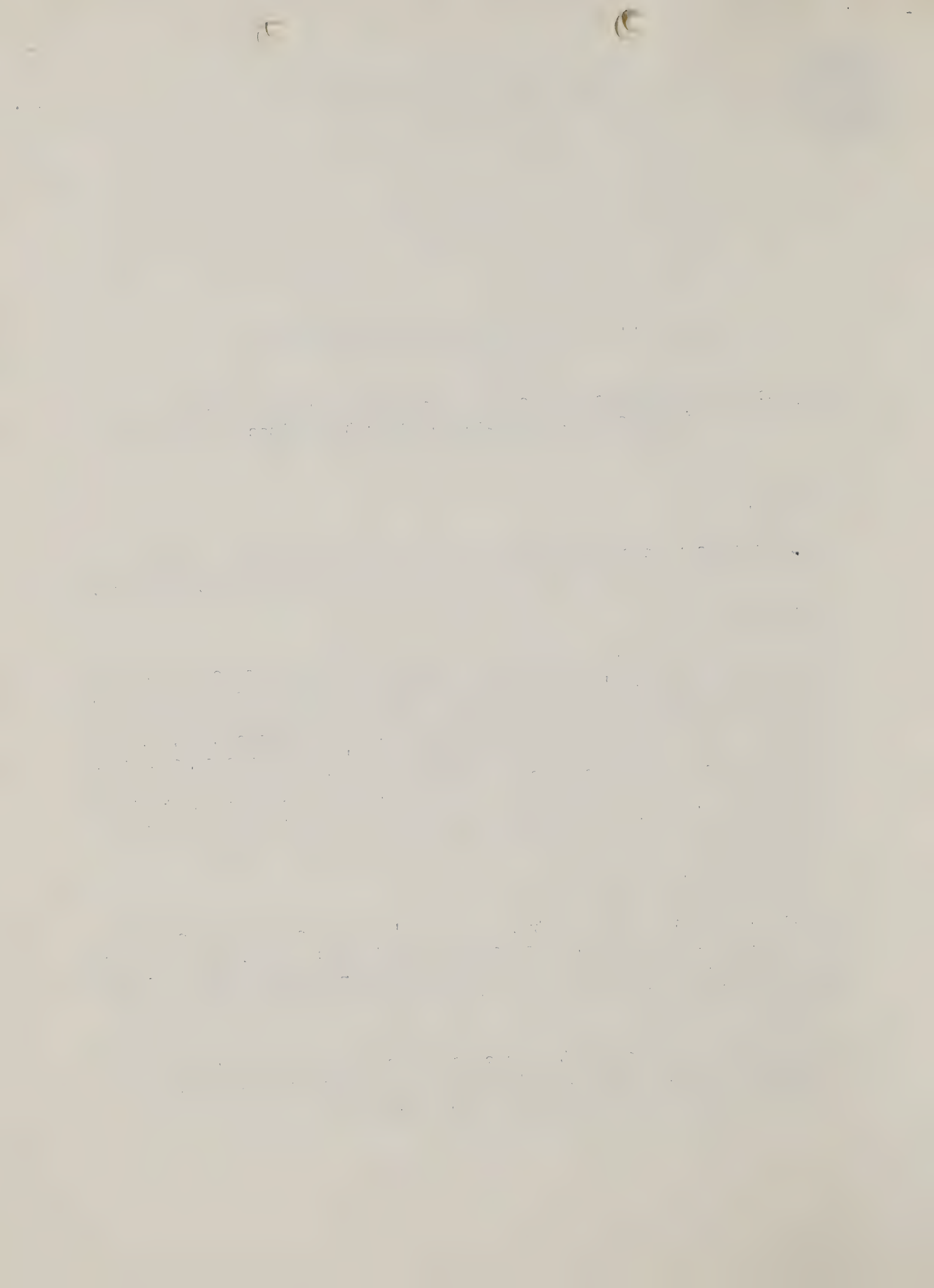
2 BACKGROUND

The exercise evaluating emergency operating sites revealed that about one-third of the CDB's which will relocate in an emergency have not made provisions for emergency records at their relocation sites. In USDA State Defense Exercise Memorandum No. 4, Supplement No. 1, SDB chairmen were requested to direct such CDB's to file emergency records wherever the CDB emergency office is located (CDH Par. 314 C-2 and 332-B). In the meantime, some CDB's have reported that simultaneous maintenance of records at the regular county ASCS office and at a separate emergency operating site is not always practical.

3 ACTION BY STATE DEFENSE BOARDS

Since it is not always practical for CDB's to have a complete set of emergency records at both the regular county ASCS office and the emergency operating site, modify subparagraph 3-B-4 of USDA State Defense Exercise Memorandum No. 4, Supplement No. 1 to give CDB chairmen the following options:

- A Maintain a complete set of emergency records at the county ASCS office in such a way that they can be transferred immediately to the emergency operating site in the event of:



1 Warning of Emergency

2 Exercise

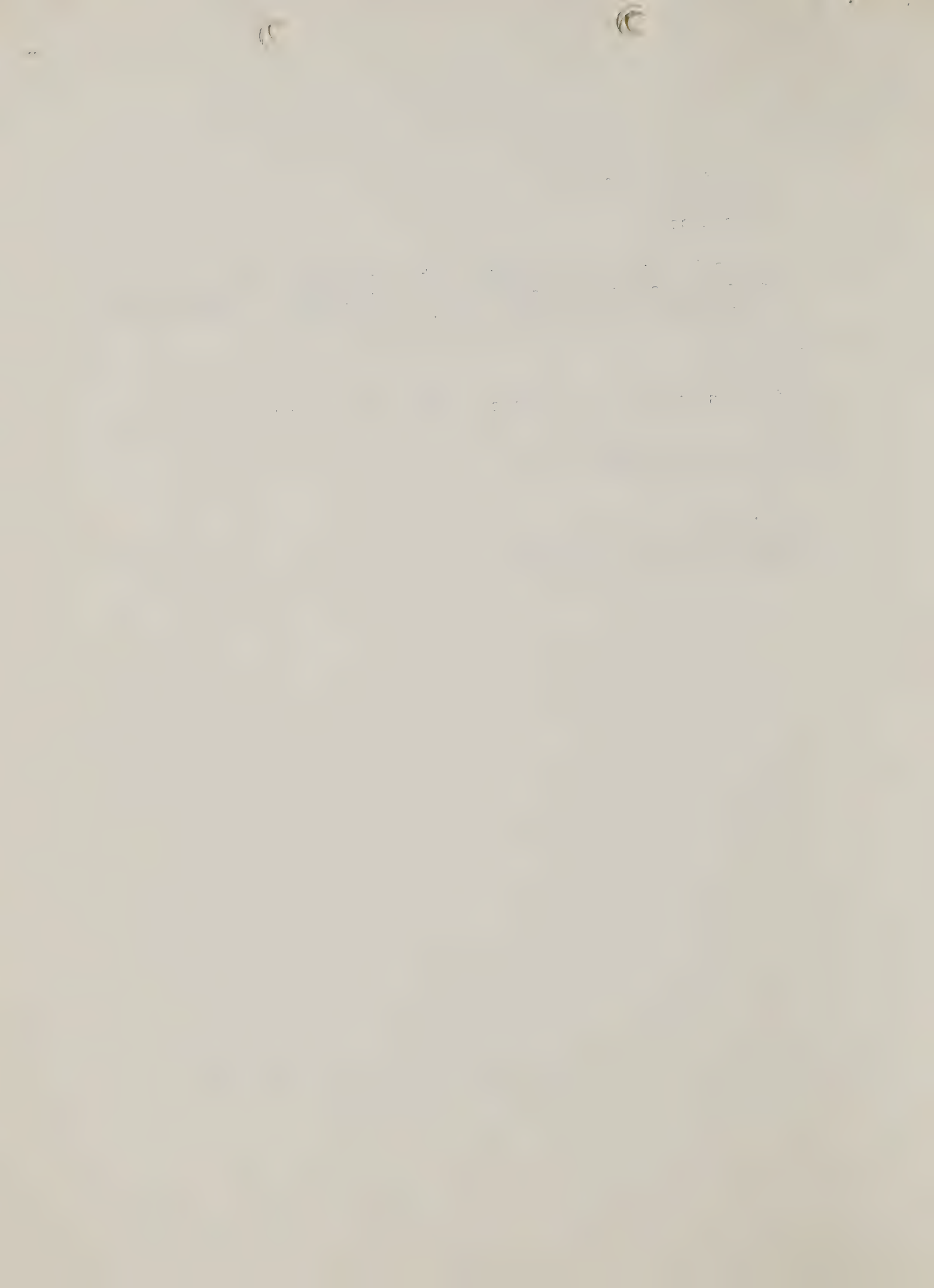
B Arrange to maintain a complete set of emergency records at the emergency operating site in lieu of maintaining a complete set of emergency records at the county ASCS office.

4 RETENTION

Retain this memorandum supplement until handbook is reissued.



EDWARD H. HANSEN
ACTING ASSISTANT TO THE SECRETARY
INTERGOVERNMENTAL AFFAIRS





DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

OFFICIAL
SECRETARY'S FILES
SECY'S REG
FILED
December 22 1970

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 5

Report and Follow-up to March 1970 Training Exercise
for the USDA State Attack Analysis Staff

1 PURPOSE

- A To provide background on the results of the training exercise covered by USDA State Defense Exercise Memorandum No. 1, dated March 4, 1970.
- B To indicate that the exercise demonstrated the need to revise some parts of the Supplement on Attack Analysis. These revisions are currently under consideration.
- C To indicate that further correspondence will be forwarded to some individual States where additional comments may be useful.

2 BACKGROUND

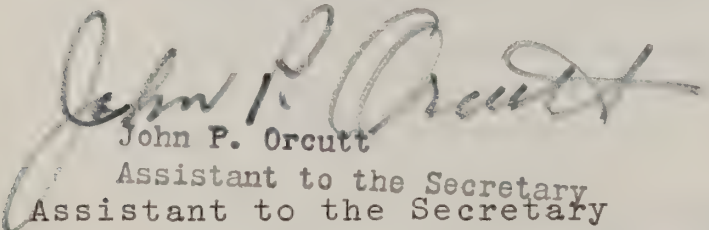
- A Attached as Exhibit A is a general summary of the exercise recommendations received from States and comments by national headquarters.
- B Attached as Exhibit B is a summary of the staffing and training of each State Attack Analysis Staff. These data indicate a wide variation among States in both the number and the training of technicians assigned to the Staff.
- C Attached as Exhibit C is a list of attack analysis materials which were forwarded to the State from national headquarters for use in the attack analysis operation. Most of these items are either out-of-print or otherwise unavailable, and extra care in maintaining them for future use is essential.

3 ACTION

- A Distribute copies of this memorandum to each member of the State Attack Analysis Staff.
- B Review the attached Exhibit B to determine how your State stands with respect to other States in the number of persons assigned to the Attack Analysis Staff and the extent of their technical training. Based on your experience in the exercise, discuss with your State Defense Board whether the number of persons assigned to the Attack Analysis Staff is adequate to carry out its function for your State.
- C Appoint a member of the Attack Analysis Staff to work with the emergency records custodian (designated in accordance with SDH Par. 437) to organize, inventory and maintain emergency records, including the maps, overlays and other working tools.
- D Provide the emergency records custodian with adequate filing space, including space for maps, overlays and fallout templates on a flat surface with an appropriate weight over them.
- E Arrange in cooperation with the Chairman of the Attack Analysis Staff for either the GSA requisition or local purchase of the required map overlay materials, magic markers, colored grease pencils and other general office supplies required in the attack analysis operation.

4 DISPOSITION

This memorandum may be discarded after the above actions have been taken.



John P. Orcutt

Assistant to the Secretary
Assistant to the Secretary

Attachments



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

FEB 11 1971

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 6

National Summary of Results of Exercise on Working
Relationships with State and Local Governments

1 PURPOSE

To transmit the national summary of the training exercise contained in USDA State Defense Exercise Memorandum No. 2.

2 BACKGROUND

USDA State and county defense boards were asked to invite the participation of State and local government officials in completing this exercise. State defense boards prepared a summary of questionnaires received from county defense boards. The county summary was transmitted to national headquarters along with the State level portion of the exercise. Highlights of the exercise are attached (Attachment 1) along with the national summary of the exercise (Attachment 2). At the national level, USDA representatives have discussed exercise results with officials of the Office of Civil Defense.

3 ACTION BY STATE DEFENSE BOARDS

- A Discuss highlights of the exercise and the national summary at a future board meeting to which State government representatives have been invited. Consider the suggestions made by other defense boards for strengthening liaison with State and local government agencies. (These suggestions are contained in Parts A-1-d, A-8, and B-13 of Attachment 2.)
- B Give county boards any information concerning the national exercise summary which will be of help and of interest to them.
- C Follow up with county boards to help correct those deficiencies revealed by this exercise which fall within USDA's area of responsibility.

NATIONAL DEFENSE 4

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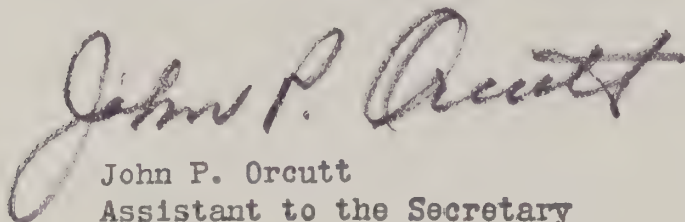
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4 RETENTION

Retain this memorandum and its attachments until actions recommended in Paragraph 3 have been taken.

A handwritten signature in dark ink, reading "John P. Orcutt". The signature is written in a cursive style with a large, looping initial "J".

John P. Orcutt
Assistant to the Secretary

Attachments



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

March 8, 1971

OFFICIAL
SECRETARY'S FILES
- - -
FILED
SECY'S RECORDS SECTION

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 7

Defense Board Responsibilities

1 PURPOSE

To improve the understanding of emergency responsibilities by USDA County and Metropolitan Area Defense Boards.

2 BACKGROUND

- A In the event of a nuclear attack upon the United States, it is essential that defense board members have comprehensive knowledge of their defense responsibilities. The USDA County Defense Operations Handbook provides the guidelines needed by defense boards to function effectively during the postattack period.
- B This exercise composed of 54 true and false statements is based entirely on information found in the handbook. New board members may find it necessary to refer to the handbook when seeking the answer to a particular true or false statement. The exercise is designed to increase board members' knowledge of their emergency responsibilities.
- C Several of the statements posed in this exercise were taken from training exercises which State defense boards have devised and used successfully on a local basis. Other statements were submitted by the various USDA agencies with defense assignments.

3 ACTION

- A Make the standard distribution of this memorandum at the State level.

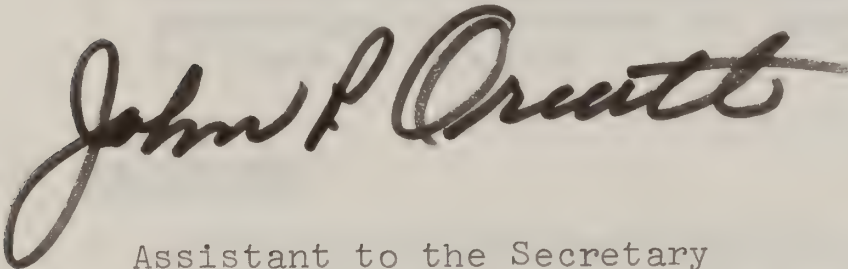
- B Receive under separate cover an average of five copies per county of the exercise "Defense Board Responsibilities" (Exhibit 1) and a like number of "Answers to Exercise on Defense Board Responsibilities" (Exhibit 2).
- C Make appropriate distribution of the exercise (Exhibit 1) to each county and metropolitan area defense board chairman along with the following instructions to each defense board chairman.
- 1 Place the exercise "Defense Board Responsibilities" (Exhibit 1), on the agenda of a county and metropolitan area defense board meeting during the second quarter (April 1 - June 30) of 1971.
 - 2 Distribute the exercise (Exhibit 1), to those attending the meeting. Discuss each statement and after reaching a consensus as to whether it is true or false, circle the "T" or "F" as appropriate in the left margin.
 - 3 File a copy of completed exercise in the defense board files. (Correct answers in Exhibit 2 will be received by the board shortly after July 1, 1971.)
- D On July 1, 1971, send "Answers to Exercise on Defense Board Responsibilities" (Exhibit 2) to county and metropolitan area defense board chairmen and request these boards to:
- 1 Compare the answers in Exhibit 2 with the answers arrived at when completing the exercise. This can be done at a county board meeting held during the third quarter (July 1 - September 30) of 1971.
 - 2 Indicate in board minutes sent to the State office:
 - a Whether the exercise was completed.
 - b Any difficulties encountered in determining whether a particular statement (identified by number) was true or false.
 - c Any observations of the board relative to the value of this type of exercise as a training device.



- E Review the exercise at a State defense board meeting during the second quarter (April 1 - June 30) as outlined in C2 above and compare the answers arrived at, with the answers in Exhibit 2.
- F In the quarterly report due on October 10, 1971, include a summary showing:
- 1 The number of county and metropolitan area defense boards that completed the exercise.
 - 2 The true and false statements (identified by number) that the boards found difficult to answer.
 - 3 Pertinent observations made by the county and metropolitan area defense boards concerning the value of this type of exercise as a training aid.
 - 4 Any observations of the State board regarding exercise.

4 . RETENTION

Retain this memorandum until November 15, 1971.

A handwritten signature in dark ink, reading "John P. O'Connell". The signature is written in a cursive style with a large, looping initial "J".

Assistant to the Secretary

John M. Smith



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

SEP 13 1971

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 8

Effects of Gamma Radiation on Livestock and Poultry

1 PURPOSE

To provide:

- A County defense boards with a training exercise in estimating the effects of radioactive fallout on livestock and poultry. The exercise materials include assumptions concerning a nuclear attack on this country, and selected data on the anticipated radioactive fallout. (The results of this exercise are expected to be used in a later exercise on feed for surviving livestock and poultry.)
- B USDA national headquarters with an estimate of the percentage distribution of livestock and poultry by types of shelter.

2 BACKGROUND

- A Livestock and poultry will be an important source of food in the event of a major defense emergency. They are biologically vulnerable to radioactive fallout. County defense boards have not had a training exercise in estimating the effects of fallout radiation on livestock and poultry.
- B National headquarters is using a computer model to estimate the effects of fallout radiation on livestock and poultry inventories. This model is used for preattack planning purposes, but it would also give an early postattack indication of surviving livestock and poultry. The major weakness of the model is lack of satisfactory information on the percentage of livestock and poultry that probably would be protected by different types of shelter under emergency conditions.

- C A set of county defense board instructions is attached. They contain the following exhibits which have been prepared as "John Doe" examples:

- Exhibit A - Estimated distribution of milk cows by types of shelter.
- Exhibit B - Estimated distribution of other cattle and calves and sheep and lambs by types of shelter.
- Exhibit C - Estimated distribution of hogs and pigs by types of shelter.
- Exhibit D - Estimated distribution of poultry by types of shelter.
- Exhibit E - Worksheet for Use in Estimating Gamma Radiation Effects on Livestock and Poultry.
- Exhibit F - Summary Distribution of Livestock and Poultry by Types of Shelter.

- D The following material is being sent to you under separate cover:

- 1 Five sets per county of the county board instructions described in subparagraph 2C above.
- 2 Five sets per county of blank Exhibits A through F for use in completing this exercise.

3 ACTION

- A Distribution of This Memorandum. Make the standard distribution at the State level.

- B County Reports for the 1969 Census of Agriculture.

- 1 If available, be sure that each county receives it's copy. (See ER Memorandum No. 28, dated March 15, 1971 for schedule of availability. Also, see county board instructions for details on how census data will be used in this exercise.)
- 2 If not available, consult with the State Agricultural Statistician and determine what livestock and poultry inventory data county boards should use to complete Exhibit E. This may be the latest estimates of livestock and poultry numbers by counties or the 1964 Census of Agriculture inventories with updating adjustments.

1. Introduction

The purpose of this study is to investigate the effects of the proposed system on the performance of the system.

The results of the study show that the proposed system has a significant positive effect on the performance of the system.

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The study also shows that the proposed system has a significant positive effect on the performance of the system.

C Handling County Exercise Material Described in Sub-paragraph 2D. Send five sets of instructions and five sets of blank exhibits to each county board chairman along with instructions:

- 1 Requesting the chairman to:
 - a Schedule the exercise for a meeting during the fourth quarter (October 1 through December 31, 1971).
 - b Distribute the county instructions (but not the blank exhibits) to members of the board and request them to review this material before the exercise.
 - c Be prepared to discuss the details of this exercise with the board.
- 2 Informing the board about the livestock and poultry inventory data to be used in completing the exhibits if the 1969 Census of Agriculture is not available. (See subparagraph 3B.)
- 3 Asking the board to:
 - a Complete the exercise in accordance with the county instructions.
 - b Send original of completed Exhibits E and F to the State defense board by January 10, 1972.

D Processing Completed Exhibits E and F Received From Counties.

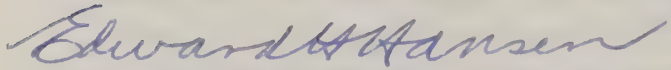
- 1 Maintain a record of the counties completing the exercise.
- 2 Review the exhibits as received and clarify any inconsistencies or discrepancies with the county board chairman.
- 3 Send the completed copies of Exhibit F to KCDPC on or before March 31, 1972. Use a simple transmittal memorandum with the subject: "Exhibit F Distribution of Livestock and Poultry by Types of Shelter". State that a copy of completed Exhibit F is being sent for all counties (or "for all counties except," then list the missing counties by name, code, and check digit). Send a copy of the transmittal memorandum to the ASCS Area Director, marked for attention of EP Division.
- 4 Discard all completed copies of Exhibit E after they have served State office review purposes.

E Reviewing Exercise With the State Board. Review with board and include in the quarterly report due on April 10, 1972 a summary of the exercise covering:

- 1 The number of county boards completing the exercise.
- 2 Names of any boards that did not complete it and the reason.
- 3 Observations by county defense boards regarding the value of the exercise.
- 4 Any observations of the State board regarding it.

4 RETENTION

Retain a copy of this memorandum, including a set of the county instructions described in subparagraph 2C, in the emergency records (Filing Code SS 7-3). Destroy all extra copies of all the material.


EDWARD H. HANSEN
Acting Assistant to the Secretary
Intergovernmental Affairs
Attachment

1. The first part of the paper is devoted to a

discussion of the

main results of the paper.

2. The second part of the paper is devoted to a

discussion of the main results of the paper.

3. The third part of the paper is devoted to a

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DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

SEP 20 1971

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 9

Civil Defense Exercise (CDEX-71)

1 PURPOSE

To provide USDA State Defense boards with information on the civil defense exercise CDEX-71.

2 BACKGROUND

The Department of Agriculture has been advised by the Office of Civil Defense that they will conduct a regional, State and local civil defense exercise to be known as CDEX-71 during the second half of October for OCD Regions 1 and 2 and during the month of November for the remaining OCD Regions. We understand that the exercise will not be directed to emergency food problems, though it is possible that some regional, State or local Civil Defense directors may vary from the national pattern and incorporate such problems.

3 USDA INVOLVEMENT IN EXERCISE

Because the exercise is not designed to cover emergency food problems, the Department will not participate as an agency in CDEX-71. However, USDA personnel having defense responsibilities at the State or local level may be invited to participate. They are permitted to do so only in situations where the civil defense organization plans to incorporate emergency food problems and where USDA can contribute actively to the success of the exercise. Participation must not conflict with regular duties. No overtime pay or compensatory time is authorized in connection with such an exercise. If any State or county defense board personnel do participate, include mention of the activity in the defense report due January 10, 1972.

4 DISPOSITION

Discard this memorandum when the CDEX-71 exercise has been concluded.

Edward Hansen

Acting Assistant to the Secretary
Intergovernmental Affairs

NATIONAL DEFENSE 4

()



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

January 5, 1972.

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. 10

Time Schedule for Semiannual Defense Board Exercises

1 BACKGROUND

The semiannual exercises for defense boards have begun on October 1 and April 1 of each year. This has created some problems from a management and reporting standpoint.

2 NEW SCHEDULE

A July 1 and January 1

In the future such exercises will begin on July 1 and January 1 of each year. On this basis the next semiannual exercise will begin on July 1, 1972 instead of April 1, 1972.

There is no change in the time schedule for the exercise now underway (see USDA State Defense Exercise No. 8 "Effects of Gamma Radiation on Livestock and Poultry").

B Action

The USDA State Defense Board Chairman will:

- 1 Make sure that State defense board members understand the schedule changes.
- 2 Inform county defense board chairmen and request that they in turn inform county board members.

3 APRIL QUARTER

A Disaster Handbook for Extension Agents

During the quarter beginning April 1, 1972, USDA State and county defense boards are encouraged to devote special attention in regular board meetings to the "Disaster Handbook for Extension



Agents." A copy of this handbook has been sent to each Cooperative Extension Service Office at State and county levels and some revised pages are being provided. While concerned primarily with information and educational services, the handbook will be of interest to all defense board members. It points out the interrelationship between CES and other USDA agencies in time of emergency and should precipitate some discussion of how the agencies should work together in time of emergency.

B Action

The USDA State defense board chairman will:

- 1 Request the CES board member to review highlights of the handbook in a regular State defense board meeting during the April quarter, and arrange with the CES member to make the handbook available for reference when not in use for other purposes.
- 2 Include in minutes of the board meeting, a summary of reactions to the handbook and results of any ensuing discussion on the role of CES in emergency situations including particularly the interaction between CES and other USDA agencies.
- 3 Request the county defense board chairmen to follow a similar procedure at the county level.
- 4 Include a summary of results of the handbook review and discussions at State and county levels in the regular quarterly report due in July 1972.

C Extension Service Guidance

The Extension Service is informing State Extension Directors of this memorandum.

4 RETENTION

July 1, 1972.



EDWARD H. HANSEN
Acting Assistant to the Secretary
Intergovernmental Affairs

1-6-72

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DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

May 12, 1972

USDA STATE DEFENSE EXERCISE MEMORANDUM NO. //

Sudden Natural Disaster Reporting and
Implications of an Electric Power Outage

1 PURPOSE

To provide USDA State and county defense boards with an exercise in reporting sudden natural disasters and with an opportunity to identify problems associated with the lack of electric power resulting from natural or man-made disasters.

2 BACKGROUND

- A Chapter 5, Title 1 of the Administrative Regulations of the USDA provides that USDA agencies keep the chairmen of State and county defense boards informed of their natural disaster operations. USDA State and county defense board chairmen are responsible for "exchanging disaster information among USDA and other government agencies needing it."
- B The recent flood disaster in West Virginia and other sudden emergencies pointed out the need for rapid reporting. A procedure for gathering information quickly and reporting it from USDA county defense boards to USDA State defense boards and from State boards to USDA national headquarters was included in USDA State Defense Memorandum No. 25.
- C This exercise will be conducted at the regularly scheduled defense board meetings at county and State levels and will include:
 - 1 A thorough discussion of the sudden disaster reporting procedure. To give this discussion realism it will be assumed that a significant power outage has occurred caused by high winds, heavy rains, and flash flooding. These assumptions are described more fully in the attached county instructions. It will be assumed for this purpose that telephone and teletype services at the State level were not disrupted.

2 Review of the problems associated with a power outage and the need for and availability of auxiliary power equipment. Necessary data will be assembled from available sources without a survey.

D An average of five copies per county of the county exercise instructions are being sent to State defense boards under separate cover.

3 ACTION

USDA State defense board chairmen will:

- A Make the standard distribution of this memorandum at the State level, plus a copy to others listed in paragraph 3D below who will be invited to the meeting of the USDA State defense board.
- B Distribute county instructions promptly to USDA county and metropolitan area defense board chairmen requesting that the instructions be carried out.
- C Summarize data submitted by the USDA county defense board chairmen as part of the report of October 10, 1972. The State summary of the Auxiliary Power Outline would be a single copy of the form attached to the county instructions (Exhibit 1) containing a summary of the returns sent in by each county. Under Item C on the form, indicate the number of counties reporting "Yes" and the number of counties reporting "No." Include State level comments under "Remarks."
- D Arrange a regular meeting of the USDA State defense board during the quarter beginning October 1, 1972 and invite, in addition to regular members, representatives of State Civil Defense, State government power officials, State Power Liaison Representatives of the Defense Electric Power Administration, Cooperative Extension Service specialists in electric power, and the representatives of the Rural Electrification Administration. Call this memorandum to the attention of all who attend and provide them also with copies of USDA State Defense Memorandum No. 25. Request that they bring with them any additional readily available information which would be useful.

Lists, including addresses and phone numbers, of the State Power Liaison Representatives of the Defense Electric Power Administration, and representatives of the Rural Electrification Administration who should be invited to attend the USDA State defense board meeting are being furnished to USDA State defense board chairmen under separate cover. It will be noted that the State Power Liaison Representatives of the Defense Electric Power Administration are all employed by private power companies. It is understood that they will defray their own expenses in attending the USDA State defense board meeting.



E In this meeting:

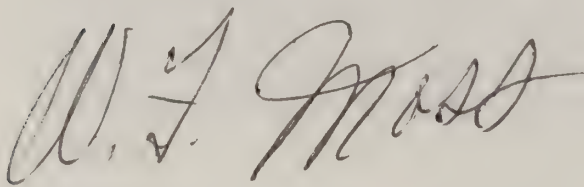
- 1 Review the reporting procedure contained in USDA State Defense Memorandum No. 25 in relation to the power outage assumptions. Identify the reporting that would be required at county and State levels. Do not actually report to the national level.
- 2 Review paragraphs 7 and 8 of the Supplement on Electricity for State and County Emergency Records (Filing Code SS 10-7).
- 3 Review and evaluate the summary of data received from USDA county defense board chairmen in the report of October 10, 1972.
- 4 Record additional ideas with respect to food and agriculture problems which might result from a power outage and the need for and availability of auxiliary power equipment.

F Include in the regular defense report of January 10, 1973:

- 1 Comments on the sudden disaster reporting procedure.
- 2 Major food and agriculture problems and ideas for the solution of food and agriculture problems which would result in the State from a power outage of at least 52 hours.
- 3 The State summary of the Auxiliary Power Outline (form attached to the county instructions as Exhibit 1).

4 RETENTION

Until February 1, 1973.



W. F. MOSS
Assistant to the Secretary
Intergovernmental Affairs



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

August 1, 1972

USDA STATE EMERGENCY EXERCISE MEMORANDUM NO. 11
SUPPLEMENT 1

Problems That Agricultural Producers Might Have to Cope With
in The Event of Interruption in Electrical Service

1 PURPOSE

To furnish to USDA State emergency boards additional information for their use in connection with the current emergency exercise on reporting sudden natural disasters and identifying problems associated with the lack of electrical power resulting from a disaster.

2 BACKGROUND

The attached letter concerning the impact of interruption of electrical service to certain livestock farming operations was prepared by Ned D. Bayley, Director of Science and Education, USDA, in reply to a letter from Edward J. Bauser, Executive Director, Joint Committee on Atomic Energy, Congress of the United States, requesting information on that subject. The letter was printed in the Congressional Record-House, H 4042, May 3, 1972.

The letter contains brief general statements relating to the impact of interruption of electrical service on milk production, feedlot operations, and operations of large poultry and poultry product plants. This information should be helpful to State emergency boards in evaluating the exercise results they receive from county emergency boards.

3 ACTION

USDA State emergency board chairmen will:

- A Make the standard distribution of this memorandum supplement and attachment at the State level, plus a copy to others who have been asked to participate in the exercise at the State level.

THE UNIVERSITY OF CHICAGO

IN THE DEPARTMENT OF THE HISTORY OF ARTS
AND ARCHITECTURE

THE UNIVERSITY OF CHICAGO
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AND ARCHITECTURE

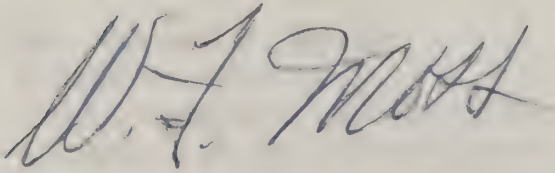
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IN THE DEPARTMENT OF THE HISTORY OF ARTS
AND ARCHITECTURE

THE UNIVERSITY OF CHICAGO
IN THE DEPARTMENT OF THE HISTORY OF ARTS
AND ARCHITECTURE

B Request USDA State emergency board members and other recipients to familiarize themselves with the contents of the attached letter.

4 RETENTION

Until February 1, 1973.

A handwritten signature in dark ink, appearing to read "W. F. Moss". The signature is written in a cursive, slightly slanted style.

W. F. Moss
Assistant to the Secretary
Intergovernmental Affairs

Attachment

THE UNIVERSITY OF CHICAGO
LIBRARY

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DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

April 12, 1972

Mr. Edward J. Bauser
Executive Director
Joint Committee on Atomic Energy
Congress of the United States
Washington, D. C. 20510

Dear Mr. Bauser:

This is in reply to your letter of March 31 in which you ask for information on the impact of interruption of electric service to certain livestock farming operations. I am pleased to meet your request with brief general statements as to the problems that producers might have to cope with in the event of interruptions in electrical service.

1. Milk Production.

a. The impact of interruption of electric service would have a most severe effect on milk production, particularly in large dairy herds. The most severe effect would be in milk yields and actually getting cows milked twice each day at near normal intervals. Cows in most all herds are milked by electrical powered milking machines. This is particularly true in large herds. There are two alternatives. One is hand milking that would be most difficult to accomplish in large herds, but possible in the smaller herds. The other alternative is the provision of power from fuel consuming auxiliary engines. Few dairymen have them, but installations are possible and probably cheaper than hiring labor for hand milking. Unusual irregular milking would have an effect on milk yield of varying degree depending on degree of irregularity. The effect may be in the range of 10 to 15 percent decrease in production. Missed milkings would be more disastrous with effects of as much as 30 to 50 percent in daily yield. Diseases such as mastitis may increase.

b. Most milk stored on the farm is in bulk tanks operated by electricity. Loss of electric power would have major effect on milk quality and on the income of farmers.

c. Loss of a steady, dependable water supply would have major adverse effects on meeting cattle needs and for the milk handling operations.

d. Many other operations involving machines operated with electrical power would interfere with herd operations and, therefore, milk production. However, these would be somewhat easier to cope with than milking and the keeping quality of milk.

2. Feedlot Operations.

a. Interruption of electrical service in feedlot operations would have less effect than in dairy. The major impact would be in powering the equipment that services the operation such as feed preparation, feeding, manure disposal, and related activities. These operations could be done with hand labor but with difficulty and with added expense. A water supply provided by electrically operated facilities if it failed would be a major factor and would otherwise have to be provided at added cost. Loss of electrical power might cause shifts in the kind and amount of rationing of cattle on finishing and adversely affect rate of gain.

3. Operation of Large Poultry and Poultry Product Plants.

a. The Midwest is a major egg producing area. The Southeast is a major broiler producing and egg producing area. Thus, there are numerous large hatcheries concentrated in these two areas.

b. A major proportion of the eggs and broilers are produced in large semiautomated units. Automatic feeding, egg collection, egg grading, ventilation, lighting, cooling, and manure removal systems are common and many units have complete environmental control. Most of these operations have standby emergency electric power units, but many are designed for only minimal short-term needs and would not be adequate for long duration blackouts. In most areas, adequate numbers of trained workers would not be available on an emergency short-term basis to handle the work routinely done by automation. In many cases, particularly those where birds are maintained in windowless, totally controlled environments with almost complete automation, it would be impossible to operate without electric power because of the nature of the automatic equipment and the size of the operations. Smaller production units would probably be better able to survive extended power failures because they depend less on automation. They would, however, still have need for electric power to operate ventilation, lighting, and cooling systems. Many would have need for electricity to operate water pumps. These small farms would be less likely to have standby power units.

1. The first part of the paper discusses the importance of the study.

2. The second part of the paper discusses the methodology used in the study.

3. The third part of the paper discusses the results of the study.

4. The fourth part of the paper discusses the conclusions of the study.

5. The fifth part of the paper discusses the implications of the study.

c. If electric power were not available for a period of several hours during the summer months, it could result in a total mortality of laying hens or broilers depending on the location, type of housing, and equipment used by the producer.

d. Most hatcheries have standby electric power units, but much like other poultry enterprises, they are designed for use during short duration blackouts. Any electric power failure of several hours in length would result in a total loss of embryos in hatchers and loss or impairment of chick embryos in those eggs in incubators.

e. Similar effects would be experienced at poultry product plants where electric power is depended on to operate machinery used to receive and prepare poultry for processing. Interruption or stoppage of the processing activity would have rather immediate effects on holding up receipt of live poultry for processing and on the availability of poultry meat in the markets. This could cause loss of income to producers and increased prices to consumers.

Sincerely,

/s/ Ned D. Bayley
Director of Science & Education

This letter was printed in the Congressional Record-House, H 4042, May 3, 1972.



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

JAN 18 1973

USDA STATE EMERGENCY MEMORANDUM NO. 11
SUPPLEMENT 2

Results of Exercise Concerning "Sudden Natural Disaster Reporting
and Implications of an Electric Power Outage"

1 PURPOSE

To transmit results of exercise on implications of electric power outage (USDA State Emergency Exercise Memorandum No. 11).

2 EXERCISE HIGHLIGHTS

Highlights of the exercise are enclosed along with:

- A Exhibit 1 - Auxiliary Power Outline - National Numerical Summary of Exercise Results.
- B Exhibit 2 - Summary of Key Recommendations and Comments from USDA Emergency Boards Concerning Auxiliary Power.

3 ACTION

- A Make standard distribution of this memorandum and its enclosures at the State level for information and review.
- B Duplicate highlights of exercise and Exhibits 1 and 2 and transmit to CEB's for information and review.
- C Request SEB and CEB members to discuss the advantages of auxiliary power as appropriate in their day-to-day agency contacts with farmers and rural residents.

4 DISPOSAL

December 31, 1973.

W. F. MOSS
Assistant to the Secretary
Intergovernmental Affairs

Enclosures

NATIONAL DEFENSE

4

- C Installations such as hospitals and water pumping and sanitation systems, not farm and food facilities, receive priority in restoration of service following a power outage.
- D There may be a need in each county to identify food and agricultural facilities which have or need auxiliary power. In one State REA is cooperating with the power company in such a listing. This information would be kept in the emergency records maintained by the USDA county emergency boards.
- E Portable generators are held by such organizations as power companies, fire departments, national guard units, and civil defense. The task of locating and listing available generators could be a worthwhile project for civil defense. USDA's need for such lists would be limited by certain factors:
 - 1. Holders would be inclined to give first consideration to immediate human welfare needs, not to farm and food facilities.
 - 2. The number and size of generators from such sources may not be adequate to serve the many farm and food facilities that might need auxiliary power.
 - 3. Due to emergency conditions, impassable roads could prevent prompt removal of the generators to points of need.

HIGHLIGHTS OF EXERCISE ON IMPLICATIONS OF ELECTRIC POWER OUTAGE

An exercise concerning auxiliary power available for food and agricultural operations was conducted by USDA county emergency boards to provide a better understanding of the implications of a prolonged power outage. The exercise assumed a 52-hour power outage caused and complicated by high winds and heavy rain accompanied by flash flooding. During the exercise board members examined the impact of the assumed outage on food and agriculture within the county and estimated the need for auxiliary equipment. Local representatives of civil defense, power companies, REA cooperatives, and other knowledgeable persons were invited to participate in the exercise.

The exercise was conducted on the basis of available information and without a survey. Therefore, the results represent only about one-third of all farms and about two-fifths of the total number of food processing and storage facilities.

USDA State emergency boards summarized the county exercise reports and reviewed and evaluated the results. Representatives of State civil defense, State government power officials, State Power Liaison Representatives of the Defense Electric Power Administration, Cooperative Extension Service specialists in electric power, and REA representatives were invited to participate in the discussion.

State summaries of county exercise reports were sent to USDA national headquarters along with comments and suggestions concerning food and agricultural problems resulting from a 52-hour power outage.

The national summary indicated that of all farm enterprises covered in the exercise, dairy farms have the highest percentage of auxiliary power units (20 percent). About 14 percent of the enterprises producing broilers and eggs have standby power.

Of the food industries covered by the exercise, 13 percent had auxiliary power, with a wide variation among industry categories. Industry categories where 30 percent or more had auxiliary power included fish and sea food canners, curers, and wholesalers, dry milk processors, ice cream processors, fluid milk plants, animal and marine fats and oil processors, raw cane sugar mills, cane sugar refiners, and cigarette manufacturers. Industry categories where five percent or less had auxiliary power were peanut shellers, terminal livestock markets, macaroni and spaghetti processors, and storage facilities for nuts and peanuts, grain (commercial storage), molasses, and rough rice.

Exhibit 1 is a national numerical summary of exercise results.

Exhibit 2 summarizes key recommendations and comments from USDA emergency boards concerning the exercise.

Blank

AUXILIARY POWER OUTLINENational Numerical Summary of Exercise Results*

(Boards were instructed to complete the exercise on the basis of knowledge available to them and not to contact individual farmers or food facility operators.)

A Farms or Farm Enterprises

	No. Covered in Exercise	Estimate of Farms or Enterprises Covered in Exercise Which Have Auxiliary Power	
		Number	Percent
(1) Dairy Farms	281,280	54,274	19.3
(2) Enterprises Producing Broilers	37,582	5,440	14.48
(3) Enterprises Producing Eggs	81,534	11,609	14.24
(4) Other	925,093	52,606	5.69

B Food Facilities

Category Number
(Exercise covered 42 percent of the total
known food facilities.)

ALL 31,501

Estimate of Facilities Covered in Exercise Which Have Auxiliary Power	
Number	Percent
4,050	12.86

C Does the space which the USDA county boards will occupy in emergency have auxiliary power? Yes 13%.

D Critical areas where attention should be given to obtaining auxiliary power: Areas most often mentioned relating to food were dairy farms, dairy manufacturers, egg and poultry enterprises, cold storage and frozen food facilities, and meat processing and storage. Aside from food, medical facilities and municipal installations such as water and sewage systems were mentioned most frequently.

E Remarks:

Many boards suggested an educational program encouraging food producers and food facility operators to make arrangements for auxiliary power. Such a program also might stress (1) periodic testing of standby power units to insure operability in an emergency and (2) safety measures necessary when switching to auxiliary power. The prohibitive cost of auxiliary power was mentioned as a deterrent in many cases. It also was noted that fuel to operate auxiliary power units could be a problem. A number of power company representatives felt that a power outage of 52 hours duration was unlikely short of nuclear attack conditions.

Don't

SUMMARY OF KEY RECOMMENDATIONS AND
COMMENTS FROM U. S. D. A. EMERGENCY BOARDS
CONCERNING AUXILIARY POWER*

- A The nation has a highly dependable electric power system. Because of this dependability, many farmers and food industry operators have not faced a serious power outage and are not equipped to deal with such an emergency. A serious power outage can cause high production losses as well as loss of production potential. Operators of farm enterprises and food facilities not equipped with standby power should assess their need, comparing the cost of the investment with the cost of lost production during an extensive power outage.
- B Cooperative Extension Service should:
1. Investigate the possibility of an educational program at the farm level to:
 - a Stress that auxiliary power costs may not be prohibitive when regarded as a form of insurance and an essential ingredient in good management.
 - b Emphasize the implications of an extensive power outage by citing actual examples of how auxiliary generators permitted farmers to continue production during some recent major disasters.
 - c Identify nonessential uses of electric power that can be curtailed or halted in critical periods.
 2. Continue to distribute available publications on electric power to:
 - a Acquaint farm operators with the size of generators needed to support essential activities.
 - b Stress to those equipped with auxiliary power that:
 - (1) Proper procedures must be followed to avoid hazards to users and repairmen.
 - (2) Equipment should be tested periodically to insure operability in an emergency.
 3. Promote demonstrations and exhibits of generating equipment suitable for farm use at farm shows, State and county fairs, etc.

*More comments related to the farm level than to food processing and storage.



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

November 21, 1972

USDA STATE EMERGENCY EXERCISE MEMORANDUM NO. 12

Exercise Relating to Major Natural Disaster Responsibilities
(With Particular Reference to Damage Assessment)

1 PURPOSE

To provide an exercise for USDA State and county emergency boards relating to major disaster responsibilities in order to:

- A Insure familiarity with procedures to be followed.
- B Assist USDA State emergency boards in determining if special training for county boards is needed.
- C Focus attention on the assessment of damage resulting from major natural disasters.

2 BACKGROUND

As indicated in USDA State Emergency Memorandum No. 36, recent major flood disasters emphasized the important role of USDA State and county emergency boards in major disasters. They can assist with coordination and liaison, and serve as a source of up-to-date information. Under this coordination, each USDA agency would carry out the disaster operations for which it is responsible.

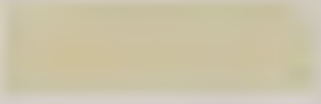
3 MATERIAL FURNISHED

Sufficient copies of this memorandum and Attachment 1 (County Emergency Board Instructions) are being sent to each State board chairman for the standard distribution at the State level, plus some work copies.

4 ACTION AT THE STATE LEVEL

The USDA State Emergency Board Chairman will:

- A Distribute this memorandum at the State level according to the standard procedure.



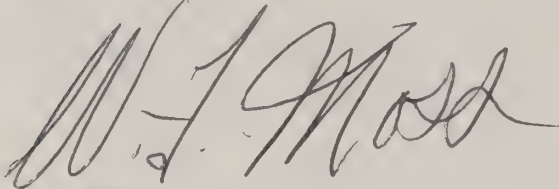
NOTE: In an actual flood disaster of major proportions, a form of this type would be prepared under leadership of the SRS member of the USDA State emergency board and sent by the USDA State Emergency Board Chairman to USDA county emergency boards affected. The two week period after the disaster is an arbitrary assumption and could be varied as necessary in an actual situation. In a serious disaster, it is likely that more than one report of this type following a disaster would be required.

- 6 Submit the following to the USDA State Emergency Board Chairman as part of your April 1973 semiannual report:
 - A The filled-out Exhibit A, including the worksheets.
 - B Any suggestions relating to the procedure for assessment of damage in major natural disasters, including the usefulness of the form shown as Exhibit A, and the related worksheets.
 - C Any questions or problems relating to the expanded role of the USDA county emergency board in major natural disasters. Indicate whether additional training would be helpful.

G File several copies of Attachment 1 (as modified) and related guidance to serve as standby damage assessment instructions until the Washington Office issues composite instructions.

5 MEMORANDUM DISPOSAL

August 1, 1973

A handwritten signature in dark ink, appearing to read 'W. F. Moss', written in a cursive style.

W. F. MOSS
Assistant to the Secretary
Intergovernmental Affairs

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COUNTY EMERGENCY BOARD INSTRUCTIONS

Exercise Relating to Major Natural Disaster Responsibilities

Each USDA county emergency board will have a meeting during the quarter beginning January 1, 1973. It should include the local civil defense representative. In the meeting the board will:

- 1 Review and discuss instructions received from the USDA State emergency board on the expanded responsibilities of the board relating to major natural disasters. Note any questions or problems. For purposes of this exercise, give particular attention to the portion of those instructions relating to "damage assessment."

- 2 Assume a disaster based on the following conditions:

Severe flooding during June in at least two-thirds of the county, (a) sufficient in rural areas to damage cropland and farm structures and strand livestock, (b) sufficient in urban areas to damage structures of all types found there including but not limited to food processing plants and warehouses, resupply centers for food chains, food wholesalers, schools and food distribution centers; (c) people forced to evacuate their homes would require housing and feeding; (d) damage to road and rail lines temporarily disrupted transportation of food and supporting items; and (e) electric power outages were widespread for several days.

- 3 Amplify the broad framework of these assumptions as they apply to your county and specify more completely.
- 4 Discuss the data which might be required in this case in the sudden disaster reports which would be prepared immediately after the flooding occurred.
- 5 Assuming the passage of two weeks following the disaster, fill out the form shown as Exhibit A, including the worksheets, and identify any difficulties the board encounters in doing this.

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- B Work with the SRS board member in adapting pages 1 and 2 of Exhibit A of Attachment 1 to the State situation. Some items may need to be expanded or clarified in some States, shortened in others. The approximate value per unit should be entered in Column 6 on page 2.
- C Duplicate and transmit to each USDA county emergency board five copies of Attachment 1, as modified under subparagraph 4B, along with any appropriate additional guidance. This should be done before January 1, 1973.
- D Compile returns from county boards which are due in April 1973. This compilation should be accomplished by the SRS board member.
- E Consider this information and the provisions of USDA State Emergency Memorandum No. 36 in the State board meeting to be held during the quarter beginning April 1, 1973. This meeting should include the State Civil Defense Director or his representative and the State Commissioner or his representative and others as appropriate. Identify in this meeting:
- 1 Any problems in interpreting the role of emergency boards in major natural disasters.
 - 2 The adequacy of damage assessment procedures following a major natural disaster.
- F Include in or with the semiannual report due July 1973:
- 1 Two copies of Exhibit A and related worksheets as modified according to subparagraph 4B or as further modified based on experience in the exercise, and any related guidance or instructions on use of the form. (The Washington Office will use these to prepare a composite instruction to be sent to State boards.)
 - 2 Any suggestions regarding the overall role of State and county boards in major natural disasters.
 - 3 A statement on whether it will be necessary to include these matters in formal training for county boards. (If training is needed, the instructions in USDA State Emergency Memorandum No. 34 will be followed.)
 - 4 Any suggestions regarding damage assessment procedures for major natural disasters, including the usefulness of Exhibit A as modified.

1. The first part of the paper discusses the importance of the study of the history of the United States.

2. The second part of the paper discusses the importance of the study of the history of the United States.

3. The third part of the paper discusses the importance of the study of the history of the United States.

4. The fourth part of the paper discusses the importance of the study of the history of the United States.

5. The fifth part of the paper discusses the importance of the study of the history of the United States.

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9. The ninth part of the paper discusses the importance of the study of the history of the United States.

10. The tenth part of the paper discusses the importance of the study of the history of the United States.

11. The eleventh part of the paper discusses the importance of the study of the history of the United States.

12. The twelfth part of the paper discusses the importance of the study of the history of the United States.

PRELIMINARY DAMAGE APPRAISAL

County, _____ State as of _____
(date)

Damage to Rural Structures, Crop and Livestock, and Food Facilities

	Number <u>1</u> /	\$1,000
A. Houses damaged	_____	_____
B. Farm buildings damaged	_____	_____
C. Machinery and equipment damaged	XXXX	_____
D. Wells damaged	_____	_____
E. Irrigation systems damaged	_____	_____
F. Land erosion damage	XXXX	_____
G. Crop damage	<u>2</u> /	_____
H. Stored feed loss	<u>2</u> /	_____
I. Stored fertilizer and other ag-chemical loss	XXXX	_____
J. Livestock loss	<u>2</u> /	_____
K. Food facilities damaged	<u>3</u> /	_____
L. Other (unspecified) losses	XXXX	_____
M. TOTAL DAMAGES	_____	=====

- 1/ Entries are not required where X's appear either in this column or on the attached worksheets. However, they may be made if the information is needed and its meaning is clear.
- 2/ See attached Worksheet on Crop and Livestock Losses.
- 3/ See attached Worksheet on Damage to Food Facilities.

Supplemental Information on Damage to Supporting Non-Food Facilities

	Remaining Capacity % of Normal
A. Power generation	_____
B. Power transmission and distribution	_____
C. Roads and bridges	_____
D. Rail lines	_____
E. Community water and sewer facilities	_____

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WORKSHEET ON CROP AND LIVESTOCK LOSSES

(1) Item	(2) Unit	Prospective Crop		Indicated Loss		
		(3) Pre- Storm	(4) Post- Storm	(5) Units	(6) \$/Unit ^{1/}	(7) Dollars
A. CROP DAMAGE		1,000	1,000	1,000		1,000
1. Grain & forage crops						
a. Barley	Bu.					
b. Wheat	Bu.					
c. Oats	Bu.					
d. Corn, grain	Bu.					
e. Corn, silage	Ton					
f. Hay, alfalfa	Ton					
g. Hay, other	Ton					
h. Grain Sorghum	Ton					
2. Tobacco	Lbs.					
3. Potatoes	Cwt.					
4. Vegetables-fresh mkt.	Acres	XXXX	XXXX			
5. Vegetables-processing	Acres	XXXX	XXXX			
6. Fruit crops						
7. Cotton	Bales					
8. Peanuts	Lbs.					
9. Other (unspecified) crops		XXXX	XXXX	XXXX	XXXX	
10. TOTAL CROP DAMAGE		XXXX	XXXX	XXXX	XXXX	
B. STORED FEED LOSSES						
1. Hay & silage	Tons	XXXX	XXXX			
2. Commercial mixes	Tons	XXXX	XXXX			
3. Grains	Bu.	XXXX	XXXX			
4. TOTAL STORED FEED LOSS		XXXX	XXXX	XXXX	XXXX	
C. LIVESTOCK LOSSES				Units	\$/Unit	1,000
1. Milk Cows	Head	XXXX	XXXX			
2. Other cattle & calves	Head	XXXX	XXXX			
3. Hogs & pigs	Head	XXXX	XXXX			
4. Sheep & lambs	Head	XXXX	XXXX			
5. Chickens (excluding broilers	Head	XXXX	XXXX			
6. Broilers	Head	XXXX	XXXX			
7. Milk & cream dumped	Cwt.	XXXX	XXXX			
8. Eggs lost	(000)	XXXX	XXXX			
9. Other (unspecified)		XXXX	XXXX	XXXX	XXXX	
10. TOTAL LIVESTOCK LOSSES		XXXX	XXXX	XXXX	XXXX	

^{1/} Approximate value per unit to be determined by SRS representative working with each USDA State emergency board.

WORKSHEET ON DAMAGE TO FOOD FACILITIES

Food Category <u>1</u> /	Number of Facilities <u>2</u> /	Number Damaged	\$1,000 Loss	Capacity		
				Total <u>3</u> /	Remaining	% Remaining
TOTAL	XXXX			XXXX	XXXX	XXXX

- 1/ Three letter category used in facility listings (e.g. GPF - flour milling; GRF - feed mills, etc.)
- 2/ Number of facilities in category as shown on facility listings.
- 3/ Based on capacity in facility listings (or best estimate).

1-10-1941



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

May 1, 1973

USDA STATE EMERGENCY EXERCISE MEMORANDUM NO. 13

Semiannual Emergency Board Exercise

1 PURPOSE

To inform USDA State Emergency Boards that the next semiannual exercise scheduled to begin on July 1, 1973 will be deferred.

2 BACKGROUND

A Policy in effect since early 1972 has provided that semiannual exercises for emergency boards are to begin on July 1 and January 1 of each year. In view of various organizational changes now pending, it appears that training exercises would be more productive once the changes in emergency organization are known. Therefore, the next semiannual training exercise scheduled to begin on July 1, 1973 will be deferred.

B The policy of holding semiannual training exercises which begin on July 1 and January 1 will again be in effect on January 1, 1974.

3 ACTION

The USDA State Emergency Board chairmen will:

A Make sure that the State emergency board members are informed of the contents of this memorandum.

B Inform county emergency board chairmen and request that they in turn inform county board members.

C Be sure that State and county boards continue to meet as provided in paragraph 354 of the USDA Emergency Operations Handbook and perform all board functions.

4 RETENTION

Retain this memorandum until further notice.

W. F. MOSS
Assistant to the Secretary
Intergovernmental Affairs



DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20250

September 25, 1973

USDA STATE EMERGENCY EXERCISE MEMORANDUM NO. 13
SUPPLEMENT 1

Deferment of Next Semiannual Emergency Board Exercise

1 PURPOSE

To inform USDA State Emergency Boards that the next semiannual exercise scheduled to begin on January 1, 1974 is deferred.

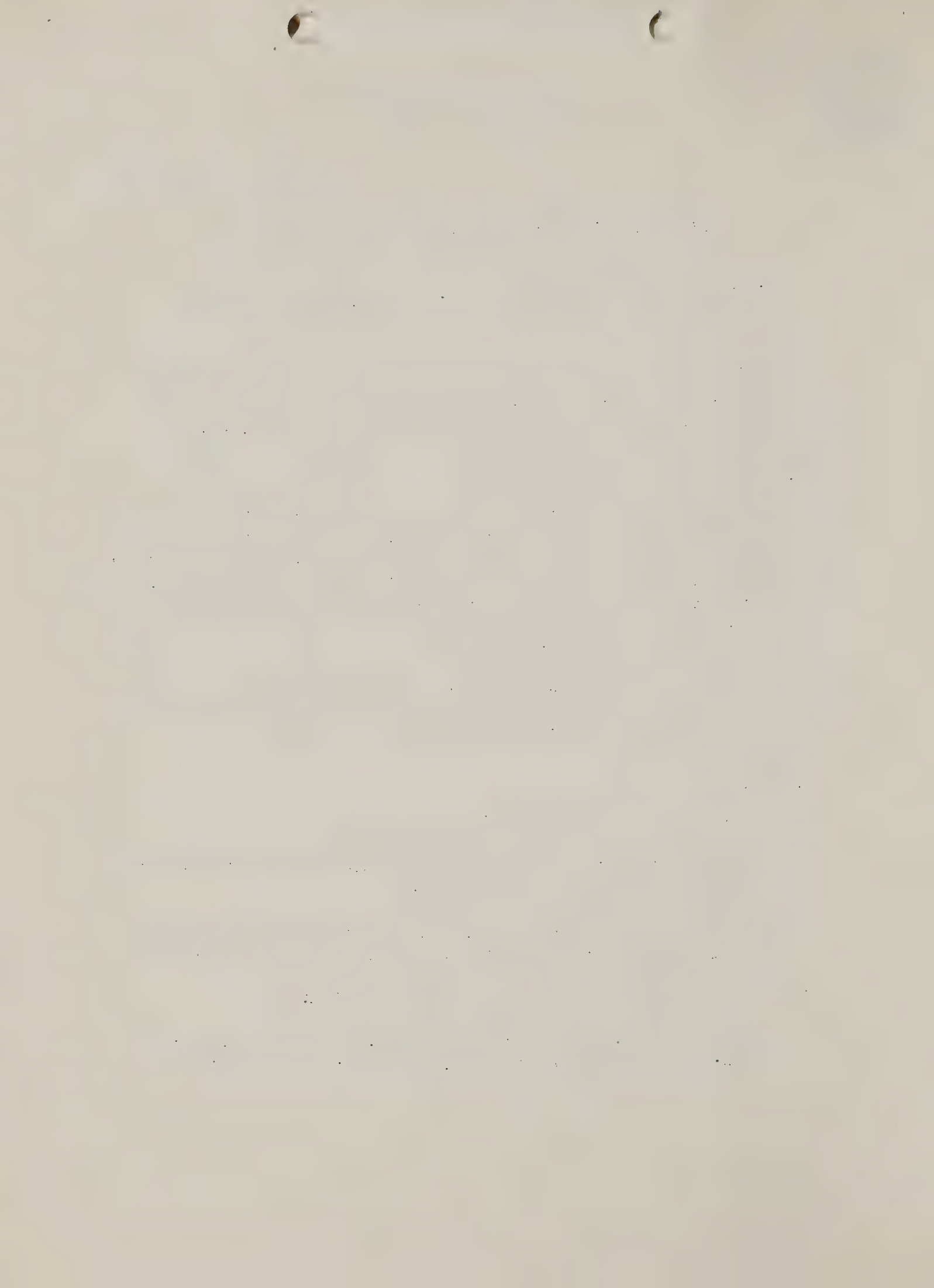
2 BACKGROUND

- A State and county emergency board members are currently involved in helping to solve problems arising from shortages and potential shortages of farm fuels, fertilizers, and other essential farm production inputs. Through this involvement, board members learn much about how to cope with emergencies. This real-situation experience is considered to be at least equivalent to a scheduled training exercise.
- B The policy of holding semiannual training exercises on July 1 and January 1 (paragraph 354, USDA Emergency Operations Handbook) will again be in effect on July 1, 1974.

3 ACTION

The USDA State Emergency Board chairmen shall:

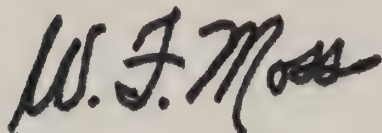
- A Make sure that the State emergency board members are informed of the contents of this memorandum.
- B Notify county emergency board chairmen of contents of this memorandum and request that they inform county board members.
- C Be sure that State and county boards continue to:
 - 1 Meet as provided in paragraph 354 of the USDA Emergency Operations Handbook and perform all board functions.



- 2 Fulfill in a timely manner the reporting requirements contained in paragraph 375 of the USDA Emergency Operations Handbook and USDA State Emergency Memorandum No. 37.

4 MEMORANDUM DISPOSAL

July 1, 1974.

A handwritten signature in dark ink, appearing to read "W. F. Moss". The signature is written in a cursive, slightly slanted style.

W. F. MOSS
Assistant to the Secretary
Intergovernmental Affairs

11. 11. 11

Attachment I to
Exhibit B

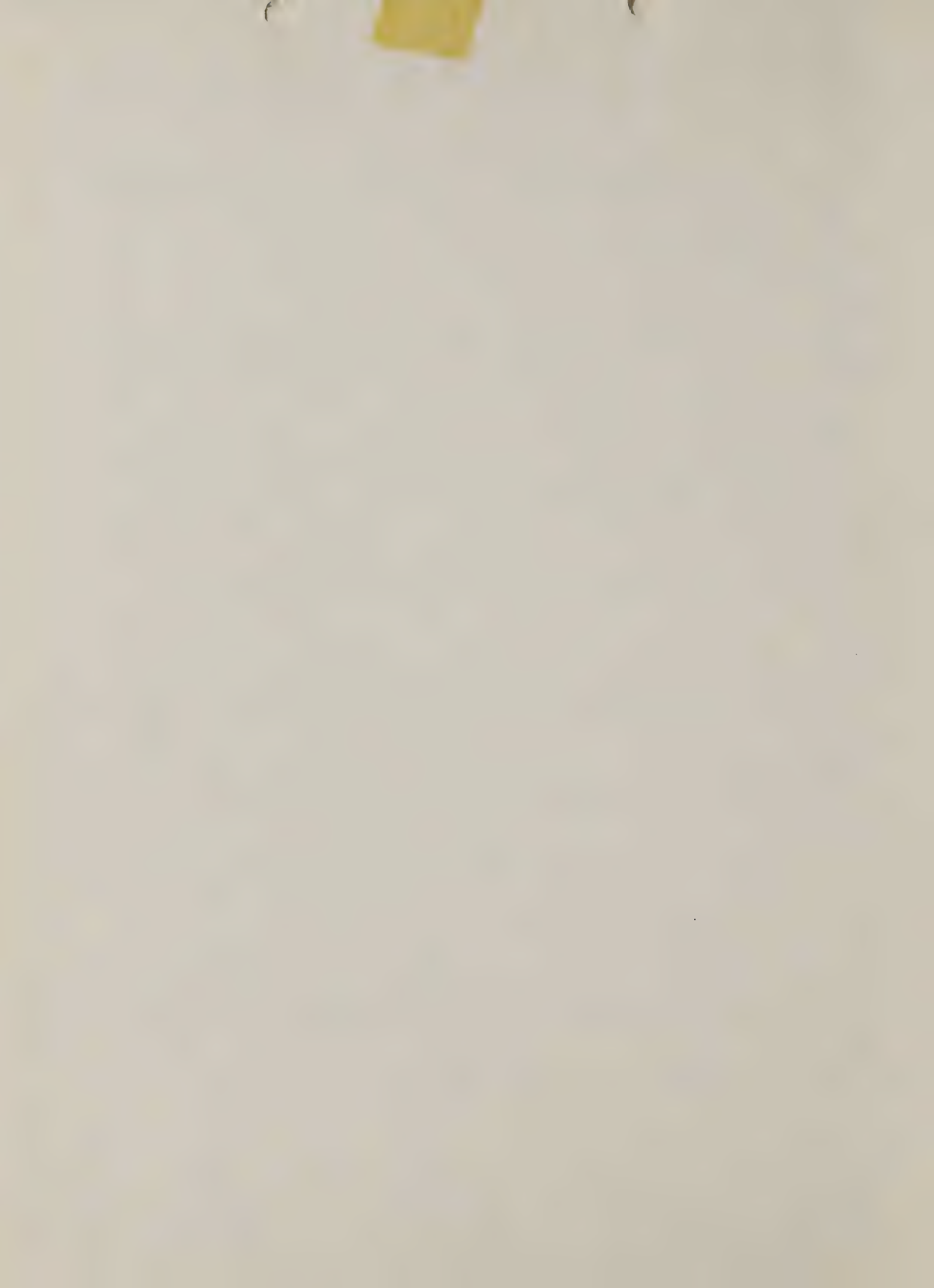
ATTACK ANALYSIS EXERCISE
Second Quarter Calendar Year 1970

STATE	Standard Pattern Used	Second Shift Available	No. Participating in Exercise	No. Attack Analysis Staff Members (1-10-70)	Man Hours Devoted to Exercise
Alabama	Yes	No	10	10	140
Alaska	Yes	Yes	6	4	63
Arizona	Yes	Yes	8	5	100
Arkansas	No	No	5	10	102
California	Collective 2/	No	7	7	98
Colorado	Yes	No	5	4	34
Connecticut	No	No	4	4	80
Delaware	No	No	5	5	25
Florida	No	No	6	6	68
Georgia	Yes	Probably	4	4	122
Hawaii	Combined	No	4	3	56
Idaho	No	No	3 1/	3	50
Illinois	Combined	No	4	5	52
Indiana			2	4	10
Iowa	Yes	Yes		6	
Kansas	Yes	No	7	9	78
Kentucky	No	Yes	7	5	90
Louisiana	Yes	Yes	4	6	33
Maine	Yes	No	6	6	96
Maryland	No	No	2	3	32
Massachusetts	No	No	2	2	52
Michigan	Yes	No	9	8	83
Minnesota	No	No	7	4	86
Mississippi	No	No	5	8	140
Missouri	Yes	No	7	4	150
Montana	No	Yes	5	6	80

STATE	Standard Pattern Used	Second Shift Available	No. Participating in Exercise	No. Attack Analysis Staff Members (1-10-70)	Man Hours Devoted to Exercise
Nebraska	No	No	6	3	98
Nevada	No	No	4	3	111
New Hampshire	No	No	3	4	76
New Jersey	No	No	2	2	40
New Mexico	Collective <u>2/</u>	No	4	5	96
New York	No	No	3	5	24
North Carolina	No	Yes	10	9	166
North Dakota	No	No	5	5	43
Ohio	No	No	8	10	70
Oklahoma	No	No	5	4	42
Oregon	Yes	No	6	6	120
Pennsylvania	No	No	2	3	72
Rhode Island	No	No	3	5	80
South Carolina	Collective <u>2/</u>	No	4	7	34
South Dakota	Yes	No	7	7	152
Tennessee	Yes	Yes	11	14	80
Texas	Yes	Yes	9	16	104
Utah	Yes	No	5	6	100
Vermont	Yes	Yes	5	5	80
Virginia	Yes	No	7	8	94
Washington	Yes	No	4	4	40
West Virginia	Yes	No	4	4	15
Wisconsin	Incomplete	No	2	6	
Wyoming	Yes	Yes	9	7	70
Puerto Rico-Virgin Islands	Yes	No	6	6	110

1/ In addition, two CD personnel involving 20 man-hours.

2/ Members worked all stations.



Attachment II to
Exhibit B

TRAINING COURSES COMPLETED BY ATTACK ANALYSIS STAFF MEMBERS

STATE	<u>1/</u> RMI	<u>2/</u> RDO	<u>3/</u> CBR	Radiological Monitoring	Other Radiological	Fire	Shelter	USDA Workshop	<u>4/</u> Misc.
Alabama	4	2	1						
Alaska				3			3	3	X
Arizona	4	2		2					
Arkansas	2	1						3	X
California	2	3							
Colorado	3	2	1	1					
Connecticut	1							1	
Delaware	3	2		1				3	
Florida	3	3	2	4				4	
Georgia	1	1						1	X
Hawaii				1					
Idaho	2	2		2					
Illinois	4	2						2	
Indiana	3	1		1				1	
Iowa	2	2	1	2		1		1	X
Kansas	2	5			2			1	
Kentucky	2	3						3	
Louisiana	6	4						3	X
Maine	3	1						1	
Maryland	1	1							
Massachusetts	2	1						1	
Michigan	1	1						1	X
Minnesota	4	2							
Mississippi	1	1						2	
Missouri	1	2						1	X
Montana	4	5	1	5					

1/ RMI - Radiological Monitoring Instructors Course

2/ RDO - Radiological Defense Officers Course

3/ CBR - Chemical, Biological and Radiological Warfare Training

4/ Training Related to attack analysis

STATE	<u>1/</u> RMI	<u>2/</u> RDO	<u>3/</u> CBR	Radiological Monitoring	Other Radiological	Fire	Shelter	USDA Workshop	<u>4/</u> Misc.
Nebraska				3				1	
Nevada	2				2		1	2	
New Hampshire	2							2	
New Jersey								1	
New Mexico	3	2	1				1	3	
New York	1							2	
North Carolina	5		1	2		3		4	X
North Dakota	2	1	1					2	
Ohio	2	1						1	
Oklahoma	2	2						2	
Oregon	1	3						3	
Pennsylvania	2	1						2	
Rhode Island	1	2		3				1	
South Carolina	2							1	X
South Dakota	5	4	1	2			1	1	X
Tennessee	4	2		4				4	X
Texas	9	5			1		2	2	X
Utah	4	2	2	2		2			X
Vermont	2				1	1		2	
Virginia	6	1						3	
Washington	3	1	1					2	
West Virginia	2	1							
Wisconsin								1	
Wyoming	3	2		1	2	1		3	X
Puerto Rico-Virgin Islands	3			4				2	

1/ RMI - Radiological Monitoring Instructors Course3/ CBR - Chemical, Biological and Radiological Warfare Training2/ RDO - Radiological Defense Officers Course4/ Training Related to attack analysis

List of Attack Analysis Materials Sent
to States from USDA National Headquarters

- 1 Four copies of State MCD (Minor Civil Division) maps prepared by the Bureau of the Census for use as outlined in Pars. 203 A-2, 402 B-1b and in other paragraphs in the revised Supplement.
- 2 Four sets of printed State overlays showing geographic boundaries, marginal tick marks for coordinates and standard location areas for use with the State MCD maps.
- 3 Two sets of sectional 1:500,000 scale (Army Map Service) maps selected to cover your State. These maps were forwarded to your State about ten years ago and they have been out-of-print for over two years.
- 4 Two sets of 1:2,500,000 scale maps of the United States with an Eastern and a Western section in each set.
- 5 Two sets of five 24" x 32" pages containing fallout plotting patterns for use as outlined in Supplement Par. 405 C-5.
- 6 Twenty-five copies of Form ASCS-262 (9-12-69) Strike Data Sheet for use as outlined in Supplement Par. 304. Additional copies of this numbered form may be requisitioned through channels when required.

List of Assets Analyzed by the FBI
in Cases from the National Laboratory

1. Four copies of the FBI (Minneapolis Division) memo dated by the Bureau of the Bureau for use as outlined in Part, 202 A-2, 402 C-2 and in other references in the revised Supplement.
2. Four sets of printed maps showing the locations of boundaries, municipal city limits for counties and standard location areas for each of the states and maps.
3. Two sets of sectional maps (Army Map Service) maps selected to cover your state. These maps were forwarded to your state about the year 1940 and they have been out-of-print for over two years.
4. Two sets of 1:250,000 scale maps of the United States with an Eastern and a Western section in each set.
5. Two sets of five 14" x 22" maps showing relief and topography for use as outlined in the revised Part, 402 C-2.
6. Twenty-five copies of the FBI (Minneapolis Division) memo dated by the Bureau of the Bureau for use as outlined in Part, 202 A-2, 402 C-2 and in other references in the revised Supplement.